











Technical Report

GP-2 Methane Monitoring Summary and Assessment South Dayton Dump and Landfill Site Moraine, Ohio

GHD | 651 Colby Drive Waterloo Ontario N2V 1C2 038443 | 202 | Report No 32 | December 12 2016



Executive Summary

Elevated methane levels have been recorded at the GP-2 nested probe in hotter summer months (returning to zero in cooler months), while nearby soil gas probes on the west side of Dryden Road adjacent to the South Dayton Site generally do not have any detectable levels of methane. All available information indicates that the methane and other gases detected at GP-2 result from the DP&L operations and property conditions. Moreover, there is no indication that the soil gas conditions at GP-2 are related to the South Dayton Site. This is supported by the following lines of evidence:

- 1. Methane has been consistently detected at GP-2 nested probes during the period of July 21 through October 12, 2016. Furthermore, elevated levels of methane in excess of 100 percent of the lower explosive limit (LEL) have been detected at GP-2 yearly since its installation (June 27 to October 17, 2013, July 17 to September 4, 2014), except in 2015¹. Since 2013, multiple soil gas probes located on the South Dayton Site on the opposite (west) side of Dryden Road have been monitored and methane was not detected with two minor exceptions; both times the Site methane levels were significantly less than the GP-2 levels. The monitoring data clearly demonstrates a concentration gradient condition with high values at GP-2 and essentially non-detect values elsewhere. This is indicative of a local source condition in close proximity to GP-2.
- 2. Physical conditions at the South Dayton Site do not support lateral movement of subsurface soil gas within preferential pathways. Stratigraphic logs identify the presence of predominantly coarse grained native soil. Flow of soil gas preferentially along buried utility bedding would only occur where the utility bedding has significantly greater permeability compared to the surrounding soil and a pressure differential exists to force soil gas movement; neither condition exists to support preferential flow. Little or no methane was detected in measurements within buried utilities nearby GP-2.
- 3. Analytical results for samples collected from GP-2 nested gas probes on August 19, 2016 confirmed the presence of methane and volatile organic compounds (VOCs) related to petroleum products. GP-2 is situated within an area of groundwater impacted by petroleum substances that results from a release from former underground storage tanks (USTs) at the DP&L Transportation Center. The release has been documented in files available through BUSTR which indicate that petroleum-impacted soil was left in place following removal of USTs and residual impacts in groundwater have persisted for many years and continue to exist.
- 4. Although potential methane sources present at the South Dayton Site relate to historic waste disposal within certain portions of the Site and USTs formerly located at various Dryden Road businesses, previous investigations have determined that these sources do not generate significant amounts of methane that migrate off-Site across the Dryden Road Site boundary.

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Respondents completed semi-annual methane monitoring at GP-2 in 2015 in accordance with Addendum 2 of the VI Mitigation Work Plan.



Soil gas monitoring demonstrates that methane concentrations at the South Dayton Site boundary are very low or not detected.



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1. Introduction

This report presents a consolidated summary of information related to the methane detections at the soil gas probe location identified as GP-2. The GP-2 location includes two nested probes screened at 12 feet and 16 feet (ft) below ground surface, situated on the east side of Dryden Road, in the right-of-way adjacent to the Dayton Power & Light (DP&L) Company Transportation Center at 1900 Dryden Road in Moraine, Ohio (DP&L property) (shown on Figure 1). The South Dayton Dump and Landfill Site (Site) is located on the west side of Dryden Road, at 1901 through 2153 Dryden Road (sometimes called Springboro Pike) and 2225 East River Road in Moraine, Ohio.

GHD (formerly Conestoga-Rovers & Associates, CRA) has prepared this summary on behalf of the Respondents to the Administrative Settlement Agreement and Order on Consent for Removal Action (ASAOC or Removal Order) with the USEPA, Docket No. V-W-13-C010 (Respondents). This summary is based on GHD's comprehensive review of all relevant, available sources of information, including, but not limited to, field measurements and observations that have been collected regularly since 2012, previous investigation results, Ohio's Bureau of Underground Storage Tank Regulations (BUSTR) file information, Ohio Utilities Protection Services (OUPS) member records, and stratigraphy logs of investigative locations.

1.1 Report Organization

The information presented in this report is organized to summarize relevant historic information related to soil gas sampling and analytical results in Section 2. The evaluation of the supporting information for the lines of evidence is presented in Section 3 and includes the following:

- 1. On-site geology
- 2. Methane readings for on-Site soil gas probes compared to off-Site (GP-2) values, including seasonal trends
- 3. Landfill gas (LFG) conditions at the Site
- 4. Potential sources of methane from DP&L property
- 5. Utility corridor information and potential preferential pathways

History of South Dayton Dump and Landfill Site Soil Gas Investigation

2.1 Soil Gas Probe Installations

In 2009 GHD installed 21 LFG/soil gas probes at the South Dayton Dump and Landfill Site in the following areas:

The central portion of the Site in areas of suspected municipal waste disposal;



- On or adjacent to the Site boundary; and
- In the vicinity of the commercial properties along the west side of Dryden Road and East River Road, and on Valley Asphalt property.

GHD installed the probes to evaluate the presence of methane and non-methane organic compounds (NMOC) and assess LFG and soil gas quality in the screened intervals of the soil gas probes.

In 2012 USEPA START contractor Dynamac Corporation installed six nested soil gas probes along Dryden Road, and one nested soil gas probe along East River Road. Five of the probes were installed along the Site boundary on the west side of Dryden and East River Roads (GP-1, GP-3, GP-4, GP-6, and GP-7), and two of the probes were installed on the east side of Dryden Road (GP-2 and GP-5) adjacent to the DP&L property boundary. Stratigraphy logs for the USEPA soil gas probes are not available.

In 2013 GHD installed three additional soil gas probes, including one nested soil gas probe, along the Dryden Road Site boundary. The purpose of the additional soil gas probes was to address gaps in the soil gas probe network, in particular, along the Dryden Road Site boundary across from GP-2. Following the installation of the additional probes, a soil gas data point (i.e., either a soil gas probe or sub-slab soil vapor probe) was present every 200 feet along the Site property line where off Site migration of methane may occur.

In general, the Site area soil gas probes are constructed with screen intervals at various depths which effectively monitor both the fill material and the underlying or surrounding native soil in the unsaturated zone, additional details are presented in Section 3.1.

Figure 1 presents the locations of the 24 GHD and 7 USEPA soil gas probes and the locations of Site buildings containing sub-slab soil vapor probes.

2.2 Summary of Soil Gas Probe Monitoring and Results

Since 2009 Respondents have installed an extensive and comprehensive soil gas probe network at the South Dayton Dump Site to evaluate the presence of methane and NMOC and monitor site boundaries where off-Site migration of methane may occur. Since its installation in 2012 Respondents have collected and compiled four years of methane and VOC screening readings from GP-2 and Site area soil gas probes.

GHD uses a LandTec GEM[™] 2000 instrument or equivalent to measure field methane values and a RAE[™] photo-ionization detector (PID) to screen for the presence of VOCs. GHD measures filtered and unfiltered combustible gases with the LandTec GEM[™] 2000; the filtered measurements are collected using a charcoal carbon filter that filters non-methane organic compounds (NMOC) and measure true methane values.

2.2.1 GP-2 Monitoring Results

In 2012 at GP-2 (12-foot and 16-foot depths), USEPA measured methane levels ranging from 2.5 to 24.1 percent and 0 percent methane at all other USEPA-installed soil gas probes. The methane concentrations measured by USEPA declined over time. The Respondents measured methane



levels at GP-2 beginning October 31, 2012, which continues in accordance with the sampling plan frequency specified in Addendum 2 of the Vapor Intrusion (VI) Mitigation Work Plan (GHD, December 2015).

The methane monitoring at GP-2 has produced an extensive amount of data, comprising over 88 individual monitoring events since 2012. Following the installation of the additional Site area soil gas probes in 2013 and in accordance with Addendum 2 of the VI Mitigation Work Plan, supplemental monitoring at the Site area soil gas probes demonstrates that the methane at GP-2 is isolated as mentioned above and discussed in more detail in Section 3.2 below. The methane values at GP-2 measured by Respondents are presented in Table 1. Also shown in Table 1 are groundwater levels from monitoring wells. The locations of the monitoring wells are shown on Figure 2.

On August 19, 2016, GHD collected 6-liter SummaTM canister samples from GP-2 at 12-ft and 16-ft intervals, and submitted the samples to TestAmerica Laboratories Inc. for analysis using USEPA Method TO-15 for VOCs and ASTM Method D1946 for methane analyses. The laboratory analytical results confirm the presence of methane at GP-2; the methane laboratory result closely matched the filtered methane field readings measured using a LandTec GEMTM 2000 meter and charcoal filter. Petroleum hydrocarbon compounds were also present in the laboratory analytical samples, including one or more of the following: 2,2,4-Trimethylpentane; butane; cyclohexane; heptane; and hexane. The GP-2 analytical results are included in Table 2.

2.2.2 Notification of Elevated Methane Levels

On August 16, 2016, GHD submitted electronic mail (email) notification of elevated methane levels adjacent to DP&L property to representatives of DP&L and the City of Moraine, with a copy to the agencies. GHD received acknowledgement of the submission from DP&L; however, no response was received from the City of Moraine.

GHD provided updates of GP-2 methane levels to DP&L representatives via e-mail on September 9, 20, and 30, 2016, and October 14, 2016, with copy to the agencies. Copies of the notification submissions are provided in Attachment A².

3. Evaluation of Lines of Evidence

3.1 On-Site Geology

The geology of the Dayton area is summarized in Section 3.1 of the Remedial Investigation Report Operable Unit 1 (OU1) (CRA, 2010).

The subsurface stratigraphy in the vicinity of the Site is consistent with the regional geology of the Miami Valley Aquifer with the exception that the Till Rich Zone is highly discontinuous beneath the Site. The soil stratigraphy is summarized below and is shown in selected cross-sections³ in

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Attachments to the notifications are the same as Table 1 and are therefore, not included in Attachment A.

Selected cross-sections from Proposed Monitoring Well and Vertical Aquifer Sampling Locations Phase 1B and 2A (Proposal), CRA, January 2014.



Attachment B and described in the stratigraphy logs included in Attachment 3 of Attachment C and Attachment D:

- 1. Fill is composed of medium to coarse sand and fine gravel, with silty sand and trace silty clay intervals. In the vicinity of the DP&L monitoring wells, black cinders, foundry sand, and fly ash are also present within the Fill layer. The thickness of fill on the west side of Dryden Road varies from 8 to 20 feet. The thickness of fill on the east side of Dryden Road in the vicinity of GP-2 varies from 2 to 16 feet.
- 2. Native soil is composed of medium to coarse sand and/or fine gravel with cobbles or rock fragments.
- 3. Discontinuous fine-grained till facies are present beneath the Site and DP&L property, at an approximate depth of 40 feet below ground surface.

The soil stratigraphy generally consists of medium to coarse grained sand and fine gravel in both fill as well as native material. This coarse-grained nature of the stratigraphy means that the soil at both the Site and DP&L property is highly permeable, and is not conducive to the development of preferential pathways for soil gas movement.

The Site area soil gas probes that are monitored in conjunction with GP-2 are nested soil gas probe GP-7 (8, 12, and 16-foot depths), GP12-09 (6'), GP22-13 (20'), GP23-13 (18.5'), GP24A-13 (20'), and GP24B-13 (4.5'). These soil gas probes are screened in both fill and native material at various locations.

In summary, the coarse nature of the soil stratigraphy of the Site and DP&L property eliminates the possibility of any preferential pathways from the South Dayton Dump and Landfill Site to the DP&L property, and the numerous Site area soil gas probes screened at various intervals in both fill and native material are well situated to detect methane that may be migrating off-Site.

3.2 Monitoring Results

Elevated methane levels at GP-2 are greater than the LEL of 5 percent during hot summer months. More particularly, the methane levels are greater at the deeper GP-2 (16-ft) depth than the shallower GP-2 (12-ft) depth (see Table 1 and Figures 3a and 3b).

The nested GP-2 soil gas probe is screened at 12 and 16 feet which is within the depth range of a DP&L UST excavation (27 feet in depth); as noted in Section 3.4 below. DP&L discontinued the excavation to the west of the Transportation Center due to the presence of a storm sewer and terminated the depth of the excavation when groundwater was encountered.

Based on the four-years of GP-2 data collected to date, the elevated levels of methane occur seasonally in warmer weather; are greater at the deeper screened interval depth of 16 ft; and are reflected in elevated PID readings. GHD monitors groundwater levels in monitoring wells in the vicinity of GP-2; there does not appear to be any correlation between groundwater levels and methane; the elevated levels of methane are correlated to temperature. The methane values at GP-2 and nearby groundwater levels measured by the Respondents are presented in Table 1.

The corresponding methane levels at South Dayton Site area soil gas probes have been non-detect throughout the years of monitoring, with two exceptions. Methane monitoring of GP23-13(18.5') on



August 29, 2016, and GP22-13(20') on October 12, 2016 indicated detectable levels of methane that were less than the LEL (3.4 percent and 0.1 percent unfiltered, respectively). The unfiltered GP-2(16') methane levels on August 29, 2016 and October 12, 2016 were 15.7 and 10.2 percent methane, respectively. The methane values at Site area soil gas probes are presented in Table 3. A comparison of non-detectable methane levels at South Dayton Site soil gas probes to GP-2 demonstrates that the GP-2 methane levels do not originate from the South Dayton Site.

3.3 LFG Conditions

Previous investigations have determined that potential LFG production at the South Dayton Site is relatively low and in a declining state since the Site has not accepted waste in 20 years and has reportedly not accepted putrescible waste since 1955 (Loney, 2014). Under these conditions the potential for a source condition and pressure gradient that would force lateral soil gas migration is insignificant. This is supported by soil gas pressure readings measured during RI field work in 2009 which show generally negative or zero (equilibrium) values⁴ (see Table 4). These negative or zero pressure values indicate that the South Dayton Dump and Landfill is not pressurized and gas is not building up in the landfill. The 2009 pressure readings indicate that the positive pressure required to cause off-Site migration of methane in soil gas does not exist at the South Dayton Dump and Landfill Site.

3.4 DP&L Property

GP-2 is located adjacent to the DP&L property; approximately 150 feet west of DP&L's Transportation Center (see Figure 1). Numerous underground storage tanks (USTs) were previously located around the DP&L Transportation Centre. At least 11 USTs have been removed since the mid-1980s from the DP&L Transportation Centre. The former USTs contained antifreeze, hoist oil, gasoline, kerosene, No. 1 oil, No. 3 oil, and used oil, and are shown on Figure 2.

GHD obtained BUSTR files for the DP&L property at 1900 Dryden Road through a public information request. BUSTR incident number 579286-00 relates to the removal of two 10,000 gallon gasoline USTs from the DP&L Transportation Center in 1989. DP&L excavated an area approximately 35 ft (east-west) x 50 ft (north-south) x 27 ft (depth) in an effort to remove residual petroleum hydrocarbon (PHC) contamination. Excavation was limited to the west by the presence of a storm sewer, limited to the east by the Transportation Center building footer, and terminated at a depth of 27 ft when groundwater was encountered (Hunter/Keck, 1989). PHCs and other constituents of petroleum fuels may form methane via biodegradation under anaerobic conditions, as noted in the *Technical Guide for Addressing Petroleum Vapor Intrusion at Leaking Underground Storage Tank Sites* (USEPA, June 2015). As of March 2015 DP&L was still conducting corrective actions to address petroleum hydrocarbon contamination from these two gasoline USTs. From 1995 to 1998, DP&L operated a groundwater (GW) remediation system that consisted of groundwater removal with air stripping. In 2004, DP&L commenced operation of an in-situ bioremediation system consisting of PVC air lines trenched to converted monitoring wells to stimulate petroleum-digesting bacteria through the injection of nutrients and oxygen. GHD understands that the bioremediation

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Slight positive pressures of 0.2 inches H₂O were measured on one occasion at soil gas probes GP17-09 and GP19-09, both at the northernmost portion of the Site.



system may not have continued operation after 2005 due to elevated levels of petroleum contamination and BUSTR's subsequent requirement for a Tier 1 Source Investigation.

Based on GHD's review of the BUSTR files, DP&L did not complete any monitoring for methane or explosive gases, nor any soil gas/vapor intrusion investigations. Following the discontinuation of the GW remediation system, DP&L sampled monitoring wells for benzene, toluene, ethylbenzene, and xylenes (BTEX). The monitoring plan in the Bioremediation Remedial Action Plan (LJB, Inc., August 2002) specified the following parameters: dissolved oxygen (DO), total organic carbon (TOC), total suspended solids (TSS), pH, dissolved iron, ammonia, orthophosphates and BTEX. The existence of PHC contamination associated with the former USTs at the DP&L Transportation Center represents a potential source of methane and petroleum substances in soil gas. The TO-15 analytical results for samples collected from GP-2 soil gas probes on August 19, 2016 confirm the presence of both methane and other petroleum substances.

3.5 Utility Corridor Information and Potential Preferential Pathways

In order to further assess potential pathways for subsurface soil gas migration GHD collected information regarding the existence of buried utilities (see Attachment C). This identified the presence of multiple buried utilities on the west side of Dryden Road including storm and sanitary sewers, water and natural gas mains. The presence of telecommunications buried infrastructure is also indicated beneath and adjacent to Dryden Road. The only buried utilities identified in the vicinity of GP-2 are storm drains, Cincinnati Bell, and a telecommunications manhole. The storm drains appear to connect to the storm sewer on the west side of Dryden Road.

USEPA's 2015 VI Guidance⁵ states that vapors "can migrate via advection (and diffusion) along a preferential subsurface pathway, such as a utility corridor or more porous zone of soil or rock, or beneath surface barriers that limit the direction(s) of vapor migration, such as frozen ground or asphalt". As stated in Section 3.1, the coarse grained soil conditions do not support the formation of preferential pathways for soil gas movement. Moreover, it is unlikely that the buried utilities are surrounded by backfill material that is more permeable than adjacent soil. Trenching techniques used for utility installation require the use of well-graded compacted material as backfill for engineering purposes (to avoid formation of voids and prevent settlement). The use of excavated spoil material for covering buried utilities is also common. Hence, it is unlikely that preferential pathways associated with buried utilities exist in the vicinity of GP-2.

In order to further assess potential subsurface methane migration GHD conducted monitoring for methane and other gases within the storm sewer system and telecommunications manhole near GP-2 on three dates. On September 28, 2016, GHD completed visual inspections and gas monitoring of underground utilities located in the area of GP-2 including storm water inlets 1 through 6 (S.I. 1, S.I. 2, S.I. 3, S.I. 4, S.I. 5, and S.I. 6), manholes 7 through 10 (M.H. 7, M.H. 8, M.H. 9, and M.H. 10), and sanitary manhole 1 (S.M.H. 1) (refer to Figure 2). Methane was not detected at storm water inlets and manholes monitored on September 28, 2016. An LEL of 1 percent was recorded at

.

OSWER Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air, June 2015, USEPA Office of Solid Waste and Emergency Response.



S.M.H. 1. The monitoring conducted on October 7 and 12 confirm the September 28 results; no detectable levels of methane or LEL were measured at S.M.H. 1 on October 7, 2016.

In summary, methane was not detected in any of these buried structures (except in the sanitary manhole at 1 percent of the LEL on September 28, 2016) although elevated methane was detected at GP-2 on each of the same dates (i.e., September 28, October 7 and 12, 2016). This demonstrates that although methane is found at GP-2 there is no indication of methane within the nearby buried utilities and, hence, no reason to conclude that buried utilities are being affected by subsurface methane migration from surrounding soil.

4. Summary

As stated in the preceding discussion, elevated methane levels have been recorded at the GP-2 nested probe in hotter summer months, while nearby soil gas probes on the west side of Dryden Road adjacent to the South Dayton Site do not have any detectable levels of methane, except for two instances and the results were below the LEL. All available information indicates that the methane and other gases detected at GP-2 result from the DP&L operations and property conditions. Moreover, there is no indication that the soil gas conditions at GP-2 are related to the South Dayton Site. This assessment is supported by multiple lines of evidence as explained above.

Since 2009, Respondents have installed an extensive and comprehensive soil gas probe network at the South Dayton Dump Site to evaluate the presence of methane and NMOC, and to monitor Site boundaries where off Site migration of methane may occur.

In 2012 USEPA installed six nested soil gas probes along Dryden Road. USEPA measured potentially explosive levels of methane at nested soil gas probe GP-2. GP-2 is located on the east side of Dryden Road, adjacent to the DP&L Transportation Centre. At least 11 USTs have been removed since the mid-1980s from the DP&L Transportation Centre; the former USTs contained antifreeze, hoist oil, gasoline, kerosene, No. 1 oil, No. 3 oil, and used oil. USEPA guidance notes that methane can form through the anaerobic biodegradation of antifreeze, petroleum hydrocarbons, and constituents of petroleum fuel. It is the Respondents' understanding that DP&L has undertaken corrective actions for over 25 years related to the removal of two 10,000 gallon gasoline USTs in 1989, BUSTR incident number 579286-00. Based on a review of BUSTR files, DP&L has not completed any methane or explosive gas investigations or monitoring during the BUSTR-related investigations and corrective actions; DP&L's investigations have been limited to petroleum hydrocarbon contamination.

From November 2012 to present, Respondents have completed routine methane monitoring at GP-2 and corresponding site area gas probes. Based on the four years of methane data collected to date, it is evident that elevated levels of methane at GP-2 occur seasonally in warmer weather, with the greatest levels measured at the deeper GP-2 (16') probe. However, the corresponding methane levels at South Dayton Site area soil gas probes have been non-detect throughout the years of monitoring, with two exceptions. For both instances, the methane values at GP-2 were significantly greater than the methane values at the Site area soil gas probes. Additionally, the Site area soil gas probes are screened in both fill and native material and are well situated to detect methane that may be migrating off-Site.



GHD reviewed stratigraphy logs and determined that coarse, permeable material is present in fill and native material, which is not conducive to the formation of preferential pathways. Additionally, underground utility information and methane readings from storm sewer inlets and manholes do not indicate the existence of any preferential pathways from the South Dayton Dump and Landfill Site to the GP-2 soil gas probe.

Based on the evidence presented in this report, the South Dayton Dump and Landfill Site is not the source of the potentially explosive levels of methane measured at GP-2. As a result, the Respondents request USEPA review and approve Revision 1 to Addendum 2 – VI Mitigation Work Plan (see Attachment E).

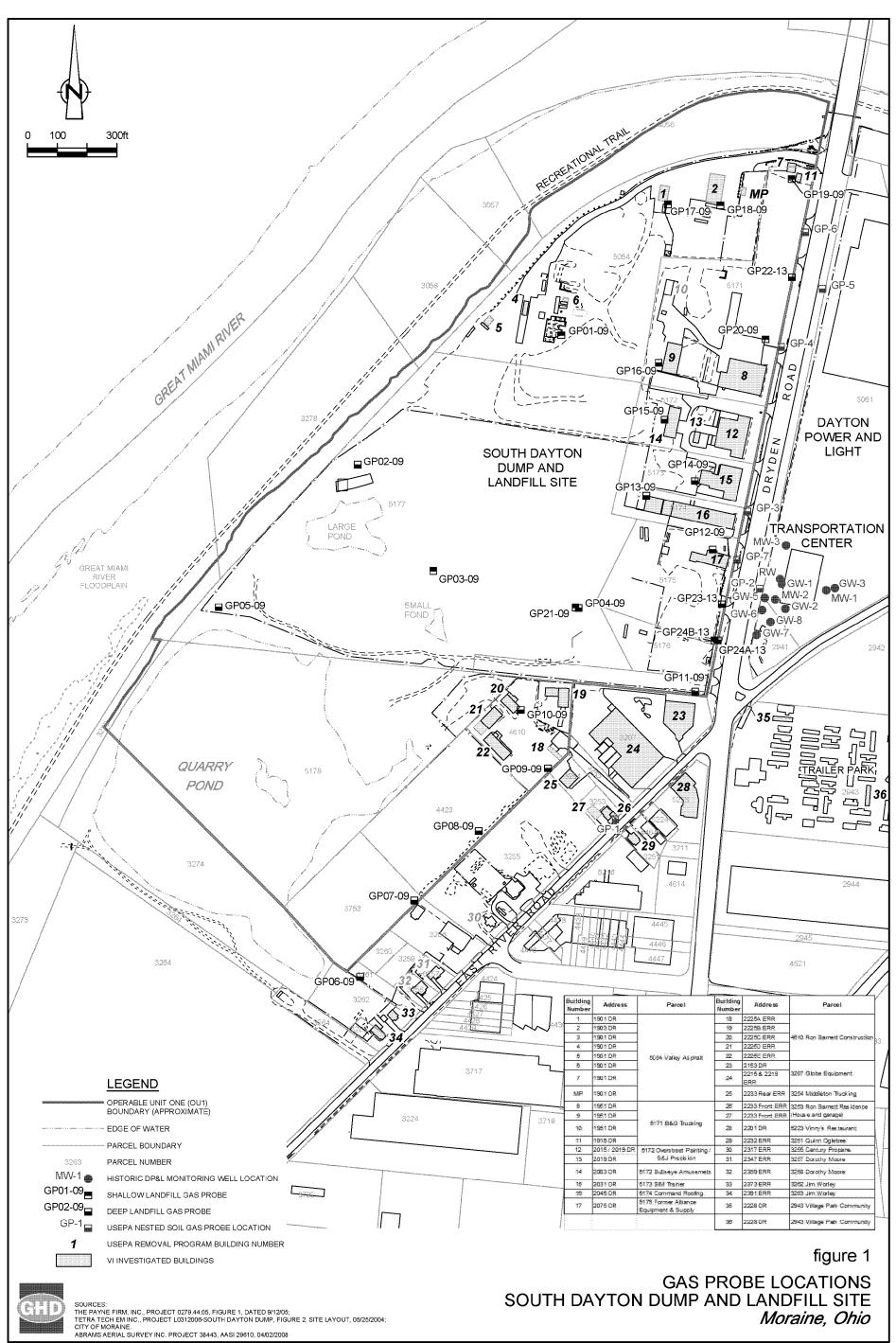
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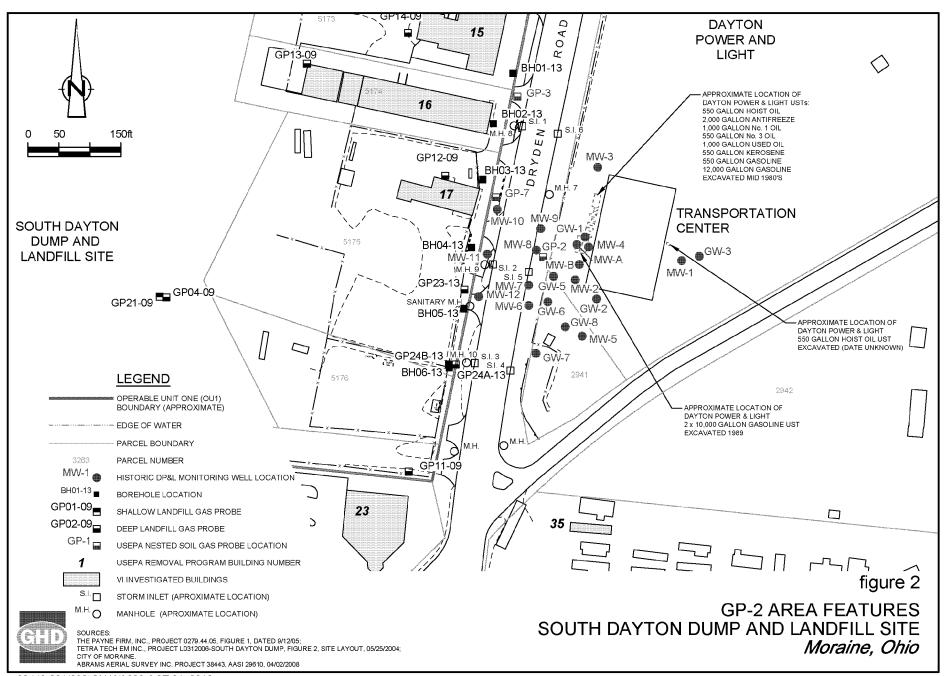
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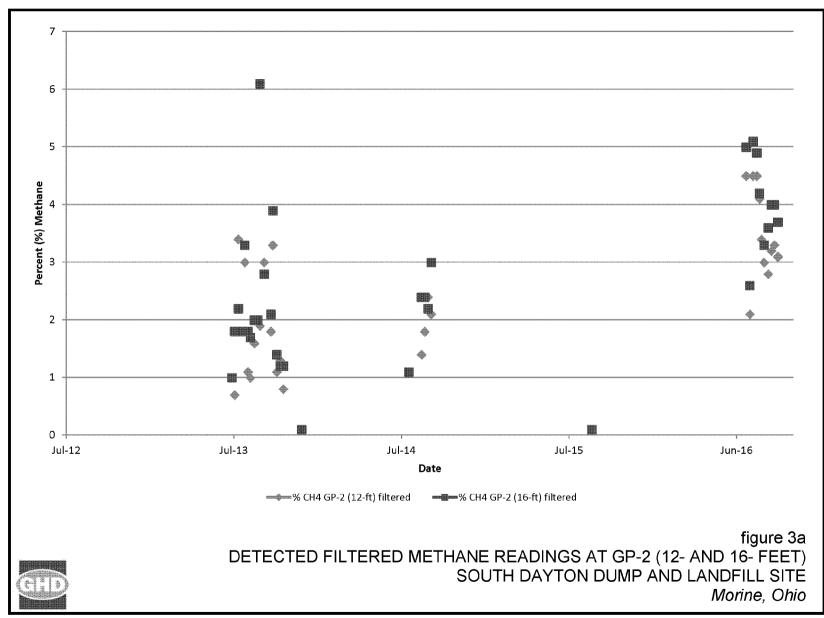
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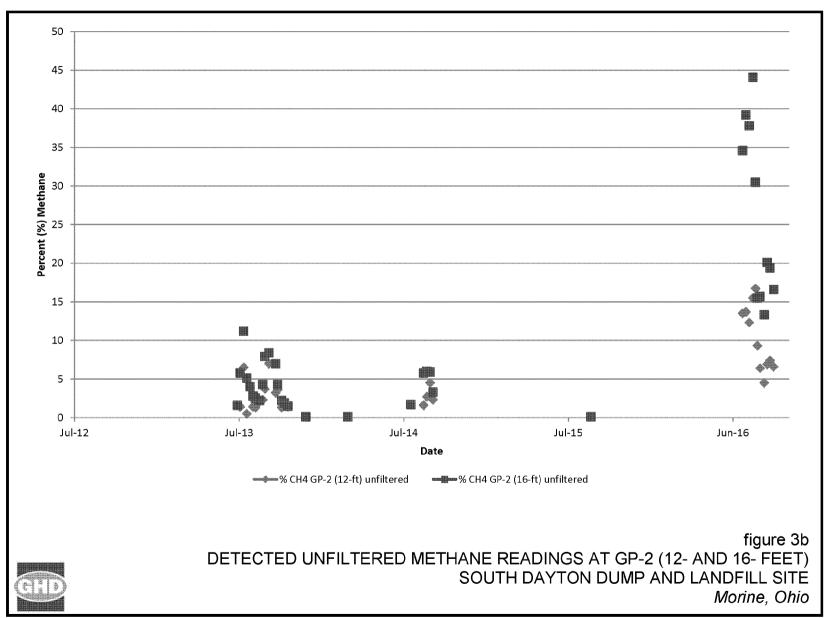
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38443-201(032)GN-WA002 OCT 21, 2016



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038443-202(REPORT032)GIS-OT002 Oct 21, 2016

Sample Location:	Date:	Time	PID (ppm)	O ₂ (%)	CO ₂ (%)	CH ₄ ^[2] (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)	Water Levels (ft BTOR)
GP-2 (12') without filter		13:54		4.1	10.6	0.0	0		•		
GP-2 (12') with filter	11/9/2012			5.6	9.1	0.0	0	30s - 40s	none		
GP-2 (16') without filter	11/9/2012			2.0	11.6	0.0	0	305 - 405	none		
GP-2 (16') with filter		-		4.6	10.0	0.0	0				
GP-2 (12') without filter		15:04	0.0	2.4	10.8	0.0	0				
GP-2 (12') with filter	11/15/2012		0.0	2.3	10.3	0.0	0	30s - 40s	none		
GP-2 (16') without filter	11/13/2012	15:09	0.0	1.0	11.8	0.0	0	303 - 403	none		
GP-2 (16') with filter			0.0	0.9	11.4	0.0	0				
GP-2 (12') without filter		14:35	0.0	2.2	11.3	0.0	0				
GP-2 (12') with filter	11/20/2012		0.0	2.1	11.0	0.0	0	50s	Trace		
GP-2 (16') without filter	11/20/2012	14:40	0.0	0.9	12.1	0.0	0	305	Trace		
GP-2 (16') with filter			0.0	8.0	11.9	0.0	0				
GP-2 (12') without filter		13:53	0.0	4.3	11.0	0.0	0				
GP-2 (12') with filter	11/29/2012		0.0	4.7	11.2	0.0	0	40s - 50s			
GP-2 (16') without filter	11/29/2012	13:58	0.0	2.1	12.1	0.0	0	405 - 505	none		
GP-2 (16') with filter		13:58	0.0	2.0	11.9	0.0	0				
GP-2 (12') without filter		16:03	0.0	6.6	9.6	0.0	0				
GP-2 (12') with filter	12/4/2012		0.0	6.7	8.5	0.0	0	50s	rainy (~0.3		
GP-2 (16') without filter	12/4/2012	16:08		6.1	10.3	0.0	0	305	inches)		
GP-2 (16') with filter				6.4	9.2	0.0	0				
GP-2 (12') without filter		13:44	0.0	6.6	9.7	0.0	0				
GP-2 (12') with filter	12/13/2012		0.0	6.9	9.3	0.1 U	2 U	40s	none		
GP-2 (16') without filter	12/10/2012	13:39	0.0	3.7	11.8	0.0	0	100	110110		
GP-2 (16') with filter			0.0	4.1	10.2	0.1 U	2 U				
GP-2 (12') without filter		13:30	0.0	8.2	9.2	0.0	0				
GP-2 (12') with filter	12/18/2012		0.0	8.1	8.9	0.0	1 ^[1]	40s	none		
GP-2 (16') without filter	12/10/2012		0.0	5.8	10.8	0.0	0	400	110110		
GP-2 (16') with filter			0.0	5.7	10.4	0.0	1 ^[1]				
GP-2 (12') without filter		15:34	0.0	19.9	2.6	0.0	0.0				
GP-2 (12') with filter	1/24/2013	15:34	0.0	18.6	2.2	0.0	0.0	20s	none		
GP-2 (16') without filter	1/24/2010	15:40	0.0	15.3	7.7	0.0	0.0	203	Hone		
GP-2 (16') with filter		15:40	0.0	16.9	1.6	0.0	0.0				
GP-2 (12') without filter		13:50	0.0	17.5	5.0	0.0	0.0				
GP-2 (12') with filter	1/31/2013	13:50	0.0	17.1	4.2	0.0	0.0	10s - 20s	none		
GP-2 (16') without filter		13:55	0.0	16.8	5.0	0.0	0.0				
GP-2 (16') with filter		13:55	0.0	17.2	3.4	0.0	0.0				
GP-2 (12') without filter		15:14	0.0	15.4	5.4	0.0	0.0				
GP-2 (12') with filter	2/7/2013	15:14	0.0	16.0	3.5	0.0	0.0	20s - 50s	none		
GP-2 (16') without filter		15:17	0.0	15.0	6.4	0.0	0.0				
GP-2 (16') with filter		15:17	0.0	15.3	4.5	0.0	0.0				
GP-2 (12') without filter		12:30	0.1	9.2	8.8	0.0	0.0				
GP-2 (12') with filter	2/12/2013	12:30	0.1	9.7	8.4	0.0	0.0	30s - 40s	none		
GP-2 (16') without filter		12:45	0.0	7.5	9.1	0.0	0.0				
GP-2 (16') with filter		12:45	0.0	6.9	8.2	0.0	0.0				

Sample Location:	Date:	Time	PID (ppm)	O ₂ (%)	CO ₂ (%)	CH ₄ ^[2] (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)	Water Levels (ft BTOR)
GP-2 (12') without filter		13:45	0.0	8.8	8.5	0.0	0.0				
GP-2 (12') with filter	2/21/2013	13:45	0.0	9.1	8.0	0.0	0.0	20s	Trace		
GP-2 (16') without filter	2/21/2013	13:50	0.0	6.9	7.0	0.0	0.0	205	Trace		
GP-2 (16') with filter		13:50	0.0	7.0	6.7	0.0	0.0				
GP-2 (12') without filter		12:45	0.0	15.8	4.9	0.0	0.0				
GP-2 (12') with filter	2/28/2013	12:45	0.0	15.8	5.1	0.0	0.0	30s - 40s	~1 inch		
GP-2 (16') without filter	2/20/2013	12:49	0.0	13.6	6.2	0.0	0.0	305 - 405	~ i inch		
GP-2 (16') with filter		12:49	0.0	13.5	6.2	0.0	0.0				
GP-2	3/7/2013	Ina	cessible	due to sn	ow cover fro	om road plow	activ ity	30s	None		
GP-2 (12') without filter		13:45	0.0	16.2	4.3	0.0	0.0				
GP-2 (12') with filter	2/44/2042	13:45	0.0	16.1	4.4	0.0	0.0	20- 40-	Nama		
GP-2 (16') without filter	3/14/2013	13:53	0.0	13.9	6.1	0.0	0.0	20s - 40s	None		
GP-2 (16') with filter		13:53	0.0	13.9	6.2	0.0	0.0				
GP-2 (12') without filter		12:20	0.0	15.9	3.8	0.0	0.0				
GP-2 (12') with filter	0/04/0040	12:20	0.0	15.9	3.9	0.0	0.0	20- 20-	T		
GP-2 (16') without filter	3/21/2013	12:26	0.0	14.2	5.7	0.0	0.0	20s - 30s	Trace		
GP-2 (16') with filter		12:26	0.0	14.1	5.9	0.0	0.0				
GP-2 (12') without filter		12:10	0.0	14.6	6.1	0.0	0.0				
GP-2 (12') with filter	0/00/0040	12:10	0.0	14.4	6.3	0.0	0.0	00- 40-	Nissa		
GP-2 (16') without filter	3/28/2013	12:15	0.0	12.9	7.4	0.0	0.0	30s - 40s	None		
GP-2 (16') with filter		12:15	0.0	12.9	7.5	0.0	0.0				
GP-2 (12') without filter		14:04	0.0	15.7	5.2	0.0	0.0				
GP-2 (12') with filter	4/4/0040	14:04	0.0	15.6	5.1	0.0	0.0	20- 50-	Nissa		
GP-2 (16') without filter	4/4/2013	14:11	0.0	13.8	6.0	0.0	0.0	30s - 50s	None		
GP-2 (16') with filter		14:11	0.0	13.8	6.1	0.0	0.0				
GP-2 (12') without filter		13:56	0.0	13.9	5.2	0.0	0.0				
GP-2 (12') with filter	4/0/2042	13:56	0.0	13.8	5.5	0.0	0.0	FO- 00-	Nissa		
GP-2 (16') without filter	4/9/2013	14:03	0.0	12.2	5.9	0.0	0.0	50s - 80s	None		
GP-2 (16') with filter		14:03	0.0	12.2	6.0	0.0	0.0				
GP-2 (12') without filter		13:48	0.0	14.7	6.1	0.0	0.0				
GP-2 (12') with filter	4/49/2042	13:48	0.0	14.7	6.0	0.0	0.0	00- 00-	Na		
GP-2 (16') without filter	4/18/2013	13:54	0.0	13.2	7.4	0.0	0.0	60s - 80s	None		
GP-2 (16') with filter		13:54	0.0	13.3	7.2	0.0	0.0				
GP-2 (12') without filter		14:45	0.0	16.3	3.8	0.0	0.0				
GP-2 (12') with filter	4/23/2013	14:45	0.0	16.8	8.0	0.0	0.0	50s - 60s	None		
GP-2 (16') without filter	4/23/2013	14:48	0.0	15.9	4.2	0.0	0.0	508 - 608	None		
GP-2 (16') with filter		14:48	0.0	16.3	2.9	0.0	0.0				
GP-2 (12') without filter		14:45	0.0	16.8	3.4	0.0	0.0			_	
GP-2 (12') with filter	4/30/2012	14:45	0.0	17.0	0.9	0.0	0.0	400 700	l None		
GP-2 (16') without filter	4/30/2013	14:50	0.0	16.3	3.9	0.0	0.0	40s - 70s	None		1
GP-2 (16') with filter		14:50	0.0	16.7	1.6	0.0	0.0				
GP-2 (12') without filter		14:41	0.0	14.8	3.3	0.0	0.0				
GP-2 (12') with filter	5/9/2013	14:41	0.0	14.9	0.9	0.0	0.0	F00 700	l None		
GP-2 (16') without filter	3/9/2013	14:45	0.0	14.1	3.8	0.0	0.0	50s - 70s	None		1
GP-2 (16') with filter		14:45	0.0	14.5	1.5	0.0	0.0				1

Sample Location:	Date:	Time	PID (ppm)	O ₂ (%)	CO ₂ (%)	CH ₄ ^[2] (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)	Water Levels (ft BTOR)
GP-2 (12') without filter		13:25	0.0	15.3	4.1	0.0	0.0	` '		, ,	
GP-2 (12') with filter	5/16/2013	13:25	0.0	15.3	4.0	0.0	0.0	40s - 80s	~1 inch		
GP-2 (16') without filter	3/16/2013	13:32	0.0	13.9	4.8	0.0	0.0	405 - 605	~1 111011		
GP-2 (16') with filter		13:32	0.0	13.9	4.8	0.0	0.0				
GP-2 (12') without filter		15:29	0.0	13.7	3.8	0.0	0.0				
GP-2 (12') with filter	5/21/2013	15:29	0.0	13.8	3.2	0.0	0.0	40s - 80s	~0.2 inch		
GP-2 (16') without filter	3/21/2013	15:32	0.0	12.7	4.5	0.0	0.0	405 - 605	~0.2 Inch		
GP-2 (16') with filter		15:32	0.0	12.8	3.0	0.0	0.0				
GP-2 (12') without filter		13:20	0.0	15.8	3.8	0.0	0.0				
GP-2 (12') with filter	5/30/2013	13:20	0.0	15.8	3.9	0.0	0.0	50s - 80s	~1.3 inch		
GP-2 (16') without filter	5/30/2013	13:25	0.0	13.1	5.1	0.0	0.0	305 - 605	~1.5 Inch		
GP-2 (16') with filter		13:25	0.0	13.0	5.3	0.0	0.0				
GP-2 (12') without filter		14:50	0.0	16.3	4.6	0.0	0.0				
GP-2 (12') with filter	0/0/0040	14:50	0.0	16.2	4.9	0.0	0.0	00-	0.05 :		
GP-2 (16') without filter	6/6/2013	15:00	0.0	14.7	6.0	0.0	0.0	60s	0.25 inch		
GP-2 (16') with filter		15:00	0.0	14.7	6.2	0.0	0.0				
GP-2 (12') without filter		16:05	0.0	8.2	5.4	0.0	0.0				
GP-2 (12') with filter	0/40/0040	16:05	0.0	7.5	5.4	0.0	0.0		4.55		
GP-2 (16') without filter	6/13/2013	16:10		5.2	6.6	0.0	0.0	60s - 80s	1.55 inch		
GP-2 (16') with filter		16:10		5.1	6.4	0.0	0.0				
GP-2 (12') without filter			0.0	8.0	6.1	0.0	0.0				
GP-2 (12') with filter			0.0	8.3	5.9	0.0	0.0				
GP-2 (16') without filter	6/20/2013			5.3	6.5	0.0	0.0	50s - 80s	None		
GP-2 (16') with filter				5.6	6.0	0.0	0.0				
GP-2 (12') without filter		14:06	0.6	15.9	1.5	0.0	0.0				
GP-2 (12') with filter		14:06	0.6	16.3	0.2	0.0	0.0		_		
GP-2 (16') without filter	6/27/2013	14:11	43.6	3.7	2.6	1.6	30	70s - 80s	Trace		
GP-2 (16') with filter		14:11	43.6	2.1	3.6	1.0	20				
GP-2 (12') without filter		13:18	23.5	6.9	4.9	1.4	28				
GP-2 (12') with filter		13:18	23.5	7.5	3.4	0.7	13				
GP-2 (16') without filter	7/3/2013	13:22	59.6	1.9	7.1	5.8	>100	60s - 80s	Trace		
GP-2 (16') with filter		13:22	59.6	1.6	6.9	1.8	36				
GP-2 (12') without filter		14:45	40.4	4.0	6.5	6,5	>100				
GP-2 (12') with filter		14:45	40.4	4.0	4.9	3.4	68				
GP-2 (16') without filter	7/11/2013	14:51	55.6	4.6	6.2	11.2	>100	60s - 70s	None		
GP-2 (16') with filter		14:51	55.6	3.9	5.0	2.2	44				
GP-2 (12') without filter		14:35	20.4	17.7	1.2	0.5	10				
GP-2 (12') with filter		14:35	20.4	17.7	1.0	0.2	5				
GP-2 (16') without filter	7/18/2013	14:41	44.3	1.9	7.4	5.1	>100	70s - 90s	None		
GP-2 (16') with filter		14:41	44.3	4.7	1.8	1.8	36				
GP-2 (12') without filter		14:15	38.7	4.8	6.5	3.8	75				
GP-2 (12') with filter		14:15	38.7	4.7	6.1	3.0	60				
GP-2 (16') without filter	7/25/2013	14:13	48.3	4.4	7.9	4.0	80	50s - 70s	None		
GP-2 (16') with filter		14.20	48.3	4.4	8.3	3.3	65				
GP-2 (12') without filter		14:00	83.5	8.1	5.3	1.4	28				
. ,		14:00	83.5	6.2	5.5 4.9	1.4	20 21				
GP-2 (12') with filter	8/1/2013		63.5 89.8	6.∠ 4.1	4.9 7.3			60s - 80s	None		
GP-2 (16') without filter		14:05				2.8	55 35		140110		
GP-2 (16') with filter		14:05	89.8	3.1	7.2	1.8	35				

Sample Location:	Date:	Time	PID (ppm)	O ₂ (%)	CO ₂ (%)	CH ₄ ^[2] (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)	Water Levels (ft BTOR)
GP-2 (12') without filter		14:06	10.5	3.9	7.6	1.3	27				
GP-2 (12') with filter	8/6/2013	14:06	10.5	3.7	5.9	1.0	21	60s - 80s	None		
GP-2 (16') without filter	0/6/2013	14:10	31.6	4.3	7.4	2.5	51	005 - 005	None		
GP-2 (16') with filter		14:10	31.6	3.1	6.1	1.7	34				
GP-2 (12') without filter		13:35	16.6	7.9	3.1	2.0	40				
GP-2 (12') with filter	8/15/2013	13:35	16.6	7.7	3.3	1.6	32	40s - 70s	None		
GP-2 (16') without filter	0/13/2013	13:40	20.6	1.5	6.2	2.2	44	405 - 705	None		
GP-2 (16') with filter		13:40	20.6	1.4	7.5	2.0	40				
GP-2 (12') without filter		14:41	33.9	3.2	8.0	2.3	47				
GP-2 (12') with filter	8/22/2013	14:41	33.9	3.2	8.4	2.0	41	60s - 80s	Trace		
GP-2 (16') without filter	0/22/2013	14:45	55.0	1.8	8.5	4.3	87	005 - 005	(0.06 in.)		
GP-2 (16') with filter		14:45	55.0	1.6	8.3	2.0	41				
GP-2 (12') without filter		14:21	22.8	2.5	8.4	3.7	74				
GP-2 (12') with filter	8/27/2013	14:21	22.8	2.6	8.9	1.9	39	70s - 80s	Nama		
GP-2 (16') without filter	0/2//2013	14:26	39.5	2.3	8.7	7.9	>100	705 - 605	None		
GP-2 (16') with filter		14:26	39.5	2.2	9.0	6.1	>100				
GP-2 (12') without filter		-	31.3	2.2	8.7	7.0	>100				
GP-2 (12') with filter	0/5/0040	_	31.3	2.3	6.9	3.0	58	50- 00-	Niema		
GP-2 (16') without filter	9/5/2013	_	39.0	3.1	8.3	8.4	>100	50s - 80s	None		
GP-2 (16') with filter		-	39.0	3.7	6.5	2.8	56				
GP-2	9/12/2013		Inaccess	ible due te	o high water	/flood conditio	ns	60s - 80s	0.29 inches		
GP-2 (12') without filter			24.7	2.6	8.7	3.2	65				
GP-2 (12') with filter	0/00/0040		24.7	2.1	8.1	1.8	34	00 00	0.6 inches	1000 1010	
GP-2 (16') without filter	9/20/2013		40.4	1.4	9.6	7.0	>100	60s - 80s		1009 - 1013	
GP-2 (16') with filter			40.4	1.5	8.9	2.1	42				
GP-2 (12') without filter		14:27	55.7	1.8	9.6	3.6	71				
GP-2 (12') with filter	0/04/0040	14:27	55.7	1.9	9.2	3.3	67	40 70		1010 1010	
GP-2 (16') without filter	9/24/2013	14:33	68.4	1.5	10.0	4.3	86	40s - 70s	None	1016 - 1018	
GP-2 (16') with filter		14:33	68.4	1.6	10.6	3.9	78				
GP-2 (12') without filter		13:27	0.9	6.8	7.2	1.3	25				
GP-2 (12') with filter	40/0/0040	13:27	0.9	6.9	5.8	1.1	17			1015 1000	
GP-2 (16') without filter	10/3/2013	13:35	53.6	3.6	8.9	2.2	44	60s - 70s	0.27 inches	1015 - 1022	
GP-2 (16') with filter		13:35	53.6	3.3	7.5	1.4	27				
GP-2 (12') without filter		13:41	18.6	0.7	10.3	1.9	38				
GP-2 (12') with filter	40/40/0040	13:41	18.6	0.5	10.2	1.3	27	40 70		1000 1000	
GP-2 (16') without filter	10/10/2013	13:47	22.6	0.9	10.3	1.9	39	40s - 70s	None	1020 - 1022	
GP-2 (16') with filter		13:47	22.6	1.7	9.0	1.2	25				
GP-2 (12') without filter		14:46	22.8	1.2	10.5	1.4	28				MW-7: 18.56
GP-2 (12') with filter	40/47/00/4	14:46	22.8	7.5	6.8	0.8	16	40- 50		4044 4044	MW-8: 18.70
GP-2 (16') without filter	10/17/2013	14:50	23.1	1.3	10.6	1.5	29	40s - 50s	0.1 inches	1011 - 1014	MW-11: 20.31
GP-2 (16') with filter		14:50	23.1	1.5	10.1	1.2	23				MW-12: 20.39
GP-2 (12') without filter		13:42	0.0	1.5	10.9	0.0	0				MW-7: 18:69
GP-2 (12') with filter	1	13:42	0.0	1.6	10.2	0.0	ő		Trace	1015 1055	MVV-8: 18.83
GP-2 (16') without filter	10/24/2013	13:47	5.6	4.6	9.6	0.0	Ö	30s - 40s	(0.02 inches)	1015 - 1025	MW-11: 20.66
GP-2 (16') with filter		13:47	5.6	4.9	8.6	0.0	ő		(=:== ::::::56)		MW-12: 20.44
GP-2 (12') without filter		15:07	0.0	6.3	8.2	0.0	0				MW-7: 18.71
GP-2 (12') with filter	[l	15:07	0.0	6.4	7.3	0.0	0	_	<u>.</u> .		MW-8: 18.87
GP-2 (16') without filter	10/31/2013	15:13	1.1	6.4	8.3	0.0	0	60s	1.25 inches	1000 - 1010	MW-11: 20.69
C. Lio/willoutintel	I	10.10	1.1	6.7	7.5	0.0	0				MW-12: 20.47

GHD 038443 (32)

GP-2 Field Monitoring Values South Dayton Dump and Landfill Site Moraine, Ohio

Sample Location:	Date:	Time	PID (ppm)	O ₂ (%)	CO ₂ (%)	CH ₄ ^[2] (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)	Water Levels (ft BTOR)
GP-2 (12') without filter		13:45	0.0	4.6	9.5	0.0	0	, ,		, ,	MW-7: 18.43
GP-2 (12') with filter	11/7/2013	13:45	0.0	4.1	7.9	0.0	0	40s	Trace	1020 - 1025	MW-8: 18.57
GP-2 (16') without filter	11/1/2013	13:51	0.0	2.6	10.7	0.0	0	405	(0.04 inches)	1020 - 1025	MW-11: 20.28
GP-2 (16') with filter		13:51	0.0	2.6	10.2	0.0	0				MW-12: 20.13
GP-2 (12') without filter		13:32	0.0	5.8	9.5	0.0	0				MW-7: 18.28
GP-2 (12') with filter	11/12/2013	13:32	0.0	6.2	8.6	0.0	0	20s - 30s	Trace	1030 - 1036	MW-8: 18.37
GP-2 (16') without filter	11/12/2013	13:38	0.0	5.4	9.6	0.0	0	205 - 305	(0.05 inches)	1030 - 1030	MW-11: 20.02
GP-2 (16') with filter		13:38	0.0	5.3	8.6	0.0	0				MW-12: 19.86
GP-2 (12') without filter		14:10	0.0	4.5	10.1	0.0	0				MW-7: 18.27
GP-2 (12') with filter	11/20/2013	14:10	0.0	5.0	8.3	0.0	0	20s - 40s	None	1023 - 1026	MW-8: 18.40
GP-2 (16') without filter	1172072010	14:15	0.0	3.5	10.4	0.0	0	203 - 403	140110	1020 - 1020	MW-11: 20.24
GP-2 (16') with filter		14:15	0.0	4.0	9.8	0.0	0				MW-12: 20.02
GP-2 (12') without filter		14:35	0.0	3.4	10.4	0.1	1				MW-7: 18.10
GP-2 (12') with filter	11/26/2013	14:35	0.0	3.4	9.5	0.0	0	30s	Trace	1013 - 1019	MW-8: 18.25
GP-2 (16') without filter	1 25, 25 . 5	14:39	0.0	3.3	10.7	0.1	1		(0.01 inches)		MW-11: 20.07
GP-2 (16') with filter		14:39	0.0	3.3	10.6	0.1	11				MW-12:19.85
GP-2 (12') without filter		14:44	0.0	6.5	9.7	0.0	0				MW-7: 18:38
GP-2 (12') with filter	12/5/2013	14:44	0.0	6.6	8.7	0.0	0	30s - 40s	0.07 inches	1013 - 1016	MW-8: 18.52
GP-2 (16') without filter		14:49	0.0	7.3	9.1	0.0	0				MW-11: 20.35
GP-2 (16') with filter		14:49	0.0	7.4	8.3	0.0	0				MW-12: 20.13
GP-2 (12') without filter		15:45	0.0	9.9	8.5	0.0	0				MW-7: 18.45
GP-2 (12') with filter	12/12/2013	15:45	0.0	9.7	8.3	0.0	0	15 - 20	None	1030 - 1036	MW-8: 18.60
GP-2 (16') without filter		15:49	0.0	7.3	10.4	0.0	0				MW-11: 20.42
GP-2 (16') with filter		15:49	0.0	6.9	9.8	0.0	0	-			MVV-12: 20.20
GP-2 (12') without filter		14:48	0.0	10.8	7.8	0.0	0				MW-7: 18.39
GP-2 (12') with filter	12/19/2013	14:48	0.0	11.0	6.8	0.0	0	30s - 40s	None	1016 - 1018	MW-8: 18.54
GP-2 (16') without filter		14:51	0.0 0.0	9.0	8.9	0.0	0 0				MW-11: 20.37
GP-2 (16') with filter		14:51		9.6	7.9	0.0					MW-12: 20.21
GP-2 (12') without filter		11:20	0.0 0.0	8.1 8.1	7.9 6.9	0.0	0		Trace		MW-7: 15.63
GP-2 (12') with filter	12/23/2013	11:20				0.0	0	20s - 30s	(0.02 inches)	1026 - 1029	MW-8: 15.72
GP-2 (16') without filter GP-2 (16') with filter		11:27 11:27	0.0 0.0	5.8 7.6	10.4 8.7	0.0 0.0	0		(0.02 iliciles)		MW-11: 17.45 MW-12: 17.32
GP-2 (12') without filter	+	16:20	0.0	21.5	0.1	0.0	0	+			MW-7: 15.24
GP-2 (12) with filter		16:20	0.0	18.2	0.1	0.0	0				MW-8: 15.39
GP-2 (12) without filter	1/2/2014	16:24	0.0	21.4	0.3	0.0	0	20s - 30s	5.46 inches	1012 - 1026	MW-11: 17.21
GP-2 (16') with filter		16:24	0.0	21.4	0.3	0.0	0				MW-12: 16.98
GP-2 (12') without filter		14:40	0.0	13.8	6.6	0.0	0				MW-7: 15.17
GP-2 (12) with filter		14:40	0.0	14.0	6.0	0.0	0				MW-8: 15.28
GP-2 (16') without filter	1/9/2014	14:45	0.0	12.0	8.2	0.0	0	20s - 30s	1.55 inches	1026 - 1035	MW-11: 17.11
GP-2 (16') with filter		14:45	0.0	13.1	6.7	0.0	0				MW-12: 16.98
GP-2 (12') without filter		13:00	0.0	13.8	6.1	0.0	0				MW-7: 15.93
GP-2 (12') with filter		13:00	0.0	13.9	3.8	0.0	0				MW-8: 16.06
GP-2 (16') without filter	1/16/2014	13:07	0.0	12.9	7.2	0.0	0	20s - 30s	0.97 inches	1008 - 1019	MVV-11: 17.90
GP-2 (16') with filter		13:07	0.0	13.2	4.1	0.0	0				MVV-12: 17.71
GP-2 (12') without filter		13:00	0.0	16.8	5.1	0.0	0				MW-7: 15.62
GP-2 (12') with filter		13:00	0.0	16.5	4.7	0.0	0				MW-8: 15.83
GP-2 (16') without filter	1/23/2014	13:07	0.0	15.4	6.0	0.0	0	5 - 15	Trace	1019 - 1038	MW-11: 17.59
GP-2 (16') with filter		13:07	0.0	15.3	4.9	0.0	ő				MVV-12: 17.46

GP-2 Field Monitoring Values South Dayton Dump and Landfill Site Moraine, Ohio

Sample Location:	Date:	Time	PID (ppm)	O ₂ (%)	CO ₂ (%)	CH ₄ ^[2] (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)	Water Levels (ft BTOR)
GP-2 (12') without filter		14:25	0.0	17.3	4.6	0.0	0				MW-7: 17.27
GP-2 (12') with filter	1/28/2014	14:25	0.0	17.3	4.1	0.0	0	5	None	1030 - 1033	MW-8: 17.41
GP-2 (16') without filter	1/20/2014	14:30	0.0	15.2	6.5	0.0	0		None	1030 - 1033	MVV-11 & MVV-
GP-2 (16') with filter		14:30	0.0	15.2	5.8	0.0	0				12: iced over
GP-2 (12')	2/6/2014	Ina	accessible			ge from road		15 - 25	0.3 inches	1029 - 1032	Inaccessible
GP-2 (12') without filter		15:16	0.0	17.5	4.5	0.0	0				MW-7: 17.62
GP-2 (12') with filter	2/13/2014	15:16	0.0	17.7	3.8	0.0	0	25 - 35	None	1003 - 1018	MW-8: 17.77
GP-2 (16') without filter	2/13/2014	15:20	0.0	19.3	2.2	0.0	0	25-55	None	1003 - 1010	MVV-11 & MVV-
GP-2 (16') with filter		15:20	0.0	19.5	0.6	0.0	0				12: iced over
GP-2 (12') without filter		14:12	0.0	16.8	4.3	0.0	0				MW-7: 17:53
GP-2 (12') with filter	2/20/2014	14:12	0.0	16.8	4.0	0.0	0	35 - 40	None	1010 - 1014	MW-8: 17.66
GP-2 (16') without filter	2/20/2014	14:14	0.0	15.8	5.4	0.0	0	00 - 40	140116	1010 - 1014	MW-11: 19:50
GP-2 (16') with filter		14:14	0.0	15.9	4.5	0.0	0				MW-12: 19.27
GP-2 (12') without filter		13:10	0.1	19.3	23	0.0	0				MW-7: 15.64
GP-2 (12') with filter	2/27/2014	13:10	0.1	19.4	1.7	0.0	0	15 - 25	Trace	1008 - 1024	MW-8: 15.78
GP-2 (16') without filter	2,27,2014	13:17	0.0	17.2	4.8	0.1	0	10 - 20	11400	1000 - 1024	MW-11: 17.59
GP-2 (16') with filter		13:17	0.0	17.4	4.1	0.0	0				MW-12: 17.41
GP-2 (12') without filter		14:21	0.0	17.8	4.3	0.0	0				MW-7∶na
GP-2 (12') with filter	3/6/2014	14:21	0.0	17.7	4.1	0.0	0	35 - 45	None	1020 - 1029	MW-8: na
GP-2 (16') without filter	0/0/2014		0.0	16.8	5.2	0.0	0	00 40	140110	1020 1020	MW-11: na
GP-2 (16') with filter			0.0	16.7	5.1	0.0	0				MW-12: na
GP-2 (12') without filter		11:57	0.0	18.1	3.5	0.0	0				MW-7: 14.12
GP-2 (12') with filter	4/2/2014	11:57	0.0	18.0	3.7	0.0	0	50s	Trace (0.15	1020	MW-8: 14.32
GP-2 (16') without filter			0.0	17.3	4.4	0.0	0	503	inches)	1020	MW-11: 16.06
GP-2 (16') with filter			0.0	17.3	4.5	0.0	0				MW-12: 15.91
GP-2 (12') without filter		15:18	0.2	16.3	3.0	0.0	0				MW-7: 16.84
GP-2 (12') with filter	5/8/2014 ^[3]	15:18	0.2	16.4	2.5	0.0	0	75-85	None	1013-1017	MW-8: 16.70
GP-2 (16') without filter	0,0,2014	15:22	0.5	20.3	0.0	0.0	0	1000	110110	10101011	MW-11: 18.68
GP-2 (16') with filter		15:22	0.5	20.0	1.6	0.0	0				MW-12: 18.46
GP-2 (12') without filter		15:40	0.0	12.6	4.1	0.0	0				MW-7: na
GP-2 (12') with filter	6/3/2014	15:40	0.0	12.6	3.7	0.0	0	75-85	Trace	1011-1014	MW-8: na
GP-2 (16') without filter	5/5/25	15:45	0.1	11.6	4.4	0.0	0	.000	11400		MW-11: na
GP-2 (16') with filter		15:45	0.1	11.7	4.4	0.0	0				MW-12: na
GP-2 (12') without filter		15:17	0.0	2.2	6.7	0.0	0				MW-7: 17.37
GP-2 (12') with filter	7/17/2014	15:17	0.0	2.1	6.4	0.0	0	70-75	None	1016-1020	MW-8: 17.51
GP-2 (16') without filter	1,1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	15:23	15.0	1.7	6.7	1.7	35	""	110110	1010 1020	MW-11: 19.36
GP-2 (16') with filter		15:23	15.0	1.7	6.2	1.1	23				MW-12: 19.13
GP-2 (12') without filter		14:40	13.3	2.2	7.4	1.6	33				MW-7: 18.33
GP-2 (12') with filter	8/14/2014	14:40	13.3	2.3	6.4	1.4	29	70-80	None	1014-1017	MW-8: 18.19
GP-2 (16') without filter	3,1,,2011	14:46	45.8	1.3	8.2	5.8	>100	1000	110110	101111011	MW-11: 20.17
GP-2 (16') with filter		14:46	45.8	1.3	7.6	2.4	49				MW-12: 19.94
GP-2 (12') without filter		15:51	25.6	0.9	8.5	2.7	55				MVV-7: na
GP-2 (12') with filter	8/21/2014	15:51	25.6	0.9	8.2	1.8	36	75-79	1.14 Inches	1014-1018	MVV-8: na
GP-2 (16') without filter	0,2,7,2014	14:45	7.2	8.0	9.2	6.0	>100	'0-10	1.14 ///0163	131-1010	MVV-11: na
GP-2 (16') with filter		14:45	7.2	8.0	8.2	2.4	48				MW-12: na
GP-2 (12') without filter		11:40	35.4	0.7	9.2	4.5	90				MW-7: 18.11
GP-2 (12') with filter	8/28/2014	11:40	35.4	0.7	7.4	2.4	48	7580	None	1016-1019	MW-8: 18.25
GP-2 (16') without filter	3,23,2314	11:43	40.0	1.7	9.5	5.9	>100	,0_0	140110	1016-1019	MW-11: 20.10
GP-2 (16') with filter		11:43	40.0	1.6	8.3	2.2	45				MW-12: 19.87

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GP-2 Field Monitoring Values South Dayton Dump and Landfill Site Moraine, Ohio

Sample Location:	Date:	Time	PID (ppm)	O ₂ (%)	CO ₂ (%)	CH ₄ ^[2] (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)	Water Levels (ft BTOR)
GP-2 (12') without filter		14:40	26.5	3.8	7.6	2.3	46				MW-7: na
GP-2 (12') with filter	9/4/2014	14:40	26.5	3.9	7.9	2.1	41	85-90	None	1016-1019	MW-8∶na
GP-2 (16') without filter	0,4,12014	14:45	38.2	6.1	7.1	3.3	66		140110	1010 1010	MW-11: na
GP-2 (16') with filter		14:45	38.2	6.1	7.3	3.0	60				MW-12: na
GP-2 (12') without filter		13:34	0.0	4.8	9.0	0.0	0				MW-7: na
GP-2 (12') with filter	10/9/2014	13:34	0.0	5.2	9.3	0.0	0	50s	0.3 Inches	1017-1021	MW-8: na
GP-2 (16') without filter		13:40	0.0 0.0	3.5	10.4	0.0	0 0				MW-11: na
GP-2 (16') with filter GP-2 (12') without filter		13:40 13:43	0.0	3.6 14.6	10.2 4.1	0.0	0				MVV-12: na MVV-7: na
GP-2 (12') with filter		13:43	0.0	15.0	1.6	0.0	0				MW-8: na
GP-2 (16') without filter	11/26/2014	13:46	0.0	13.6	4.6	0.0	0	30-35	None	1018-1023	MW-11: na
GP-2 (16') with filter		13:46	0.0	13.4	2.3	0.0	0				MW-12: na
GP-2 (12') without filter		16:00	0.0	20.6	0.0	0.0	0				MW-7: 17.85
GP-2 (12') with filter		16:00	0.0	20.7	0.0	0.0	ő				MW-8: 17.98
GP-2 (16') without filter	2/6/2015	16:04	0.0	14.7	5.9	0.0	Ö	25-35	None	1022 - 1030	MW-11: 19.81
GP-2 (16') with filter		16:04	0.0	14.8	5.2	0.0	Ō				MW-12: 19.59
GP-2 (12') without filter		16:09	0.0	9.5	4.2	0.0	0				MW-7: 17.45
GP-2 (12') with filter	5/20/2015	16:09	0.0	9.8	3.4	0.0	0	50-60	None	1016 - 1022	MW-8: 17.60
GP-2 (16') without filter	3/20/2013	16:11	0.0	7.1	5.2	0.0	0	30-00	None	1010 - 1022	MW-11: 19.43
GP-2 (16') with filter		16:11	0.0	7.0	4.9	0.0	0				MW-12: 19.21
GP-2 (12') without filter		14:00	0.0	4.4	9.0	0.0	0				MW-7: 17.75
GP-2 (12') with filter	8/20/2015	14:00	0.0	4.4	8.4	0.0	0	65-70	Trace	1009 - 1017	MW-8: 17.56
GP-2 (16') without filter	"	14:04	1.2	2.3	9.8	0.1	3				MW-11: 19.54
GP-2 (16') with filter		14:04	1.2	2.5	9.6	0.1	2				MW-12: 19.30
GP-2 (12') without filter		14:22	0.0	2.2	9.7	0.0	0				MW-7: 18.60
GP-2 (12') with filter GP-2 (16') without filter	11/5/2015	14:22 14:25	0.0 0.0	2.3 1.2	7.5 10.5	0.0 0.0	0 0	60-70	Trace	1019 - 1021	MW-8: 18.46 MW-11: 20.43
GP-2 (16) with filter		14:25	0.0	1.2	8.7	0.0	0				MW-12: 20.20
GP-2 (12') without filter		14:42	0.0	14.2	6.2	0.0	0				MW-7: 17.54
GP-2 (12') with filter		14:42	0.0	14.5	4.9	0.0	0				MW-8: 17.40
GP-2 (16') without filter	1/28/2016	14:47	0.0	12.0	7.9	0.0	Ö	35-45	Trace	1005 - 1012	MW-11: 19.37
GP-2 (16') with filter		14:47	0.0	12.1	7.4	0.0	ő				MW-12: 19.15
GP-2 (12') without filter		14:26	74.9	1.5	7.5	13.5	>100				MW-7: 18.77
GP-2 (12') with filter		14:26	74.9	1.3	7.4	4.5	87				MW-8: 18.65
GP-2 (16') without filter	7/21/2016	14:32	98.1	1.3	7.8	34.6	>100	88-91	None	1019 - 1020	MW-11: 20.61
GP-2 (16') with filter		14:32	98.1	1.4	7.5	5.0	>100				MW-12: 20.37
GP-2 (12') without filter		11:06	68.4	0.5	7.5	13.7	>100				MW-7: 19.08
GP-2 (12') with filter	7/29/2016 ^[4]	11:06	68.4	10.1	3.4	2.1	42	85-86	None	1010 - 1014	MW-8: 18.86
GP-2 (16') without filter	1/29/201013	11:17	83.5	0.7	7.7	39.2	>100	03-00	None	1010-1014	MW-11: 20.58
GP-2 (16') with filter		11:17	83.5	9.8	3.7	2.6	52				MW-12: 20.68
GP-2 (12') without filter		17:08	30.4	0.1	7.7	12.3	>100				MW-7: 19.20
GP-2 (12') with filter	8/5/2016	17:08	30.4	0.1	7.6	4.5	91	87 - 91	None	1012 - 1014	MW-8: 19.05
GP-2 (16') without filter	0,0,2010	17:12	63.0	0.2	7.9	37.8	>100	0, 0,	None	1012 - 1014	MW-11:21.03
GP-2 (16') with filter		17:12	63.0	0.9	7.4	5.1	>100				MW-12:20.78

GP-2 Field Monitoring Values South Dayton Dump and Landfill Site Moraine, Ohio

GP-2 (16') with filter 11:32 73.0 1.6 7.7 4.9 99	MW-7: 19.24 MW-8: 19.38 MW-11: 20.97 MW-12: 21.08 MW-7: 19.04
GP-2 (16') without filter S/13/2016 11:32 73.0 0.0 8.6 44.1 >100 79-84 17ace 1011-1015	MW-11: 20.97 MW-12: 21.08
GP-2 (16') without filter 11:32 73.0 0.0 8.6 44.1 >100 99	MW-12: 21.08
GP-2 (12') without filter GP-2 (12') with filter GP-2 (16') without filter GP-2 (12') without filter GP-2 (12') without filter GP-2 (12') without filter GP-2 (12') without filter GP-2 (16') without filter GP-2 (16') without filter GP-2 (16') without filter GP-2 (12') without filter GP-2 (16') without filter GP-2 (12') without filter GP-	
GP-2 (12') with filter B/19/2016 11:04 8.1 0.1 8.6 4.1 82 77 - 86 None 1014 - 1017	¹ M/\∧/_7·19 ∩ /\ I
GP-2 (16') with filter S/19/2016 11:12 17.0 0.3 9.2 30.5 >100 77-86 None 1014 - 1017	
GP-2 (16') with filter	MW-8: 18.90
GP-2 (12') without filter GP-2 (12') with filter GP-2 (12') with filter GP-2 (16') without filter GP-2 (16') without filter GP-2 (16') without filter GP-2 (16') without filter GP-2 (12') with filter GP-2 (16') with filter GP-2 (12') without filter GP-2 (12') with filter	MW-11: 20.87
GP-2 (12') with filter GP-2 (16') without filter GP-2 (12') without filter GP-2 (12') without filter GP-2 (12') without filter GP-2 (12') without filter GP-2 (16') without filter GP-2 (12') with filter	MW-12: 20.64
GP-2 (16') without filter GP-2 (16') with filter GP-2 (12') without filter GP-2 (16') without filter GP-2 (12') with filter	MW-7: 18.99
GP-2 (16') without filter 12:59 68.3 0.0 8.7 15.5 >100	MW-8: 19.12
GP-2 (12') without filter GP-2 (12') with filter GP-2 (12') with filter GP-2 (16') without filter GP-2 (16') without filter GP-2 (16') with filter GP-2 (16') with filter GP-2 (12') with filter GP-2 (12') without filter GP-2 (12') without filter GP-2 (12') without filter GP-2 (12') without filter GP-2 (12') with filter	MW-11: 20.70
GP-2 (12') with filter GP-2 (16') without filter GP-2 (16') without filter GP-2 (16') without filter GP-2 (16') without filter GP-2 (12') without filter GP-2 (12') without filter GP-2 (12') without filter GP-2 (12') with filter	MW-12: 20.81
GP-2 (16') without filter GP-2 (16') with filter GP-2 (16') with filter GP-2 (12') without filter GP-2 (12') with filter	MW-7: 19.11
GP-2 (16') without filter 13:13 82.5 0.2 9.3 15.7 >100	MW-8: 18.98
GP-2 (12') without filter 18.1 0.0 8.5 4.5 90 GP-2 (12') with filter 9/7/2016 18.1 0.0 8.0 2.8 56 75 90 None 1019 1022	MW-11: 20.71
GP-2 (12') without filter 18.1 0.0 8.5 4.5 90 GP-2 (12') with filter 9/7/2016 18.1 0.0 8.0 2.8 56 75 90 None 1019 1022	MW-12: 20.85
GP-2 (12') with filter 9/7/2016 18.1 0.0 8.0 2.8 56 75 90 None 1019 1022	MW-7: 19.45
	MW-8: 19.29
GP-2 (16') without filter 33.0 0.0 8.7 13.3 >100 73-90 Note 1019-1022	MW-11: 21.74
GP-2 (16') with filter 33.0 0.0 8.5 3.6 73	MW-12: 21.03
GP-2 (12') without filter 32.7 0.0 9.3 6.9 >100	MW-7: 19.37
GP-2 (12') with filter 9/14/2016 32.7 0.0 9.4 3.2 65 75 - 85 Trace 1020 - 1024	MW-8: 19.22
GP-2 (16') without filter 9/14/2016 53.1 0.0 9.6 20.1 >100 73-63 11ace 1020-1024	MW-11: 21.10
	MW-12: 20.91
GP-2 (12') without filter 14:10 25.5 0.0 8.8 7.4 >100	MW-7: 19.55
GP-2 (12') with filter 9/20/2016 14:10 25.5 0.0 8.8 3.3 67 72 - 86 None 1019 - 1022	MW-8: 19.41
GP-2 (16') without filter 14:28 37.7 0.0 9.0 19.4 >100	MW-11: 21.24
	MW-12: 21.15
GP-2 (12') without filter 14:43 28.5 0.1 10.0 6.6 >100	MW-7: 19.67
GP-2 (12') with filter 9/28/2016 14:43 28.5 0.0 10.1 3.1 62 50 - 60 1 inch 1009 - 1014	MW-8: 19.52
	MW-11: 21.51
GP-2 (16') with filter 14:48 35.2 0.1 10.2 3.7 74 GP-2 (12') without filter 11:38 88.4 0.0 9.4 5.7 >100	MW-12: 21.26 MW-7: 19.56
ICD 2 /12/\(\text{}\) with filter \(\begin{array}{cccccccccccccccccccccccccccccccccccc	MW-8: 19.40
	MW-11: 21.38
GP-2 (16') with filter 11:43 89.5 0.0 8.6 3.4 68	
GP-2 (12') without filter 15:44 27.9 0.0 9.4 4.7 94	MW-12: 21.13
GP-2 (12') with filter 10/12/2016 15:44 27.9 0.0 9.2 2.7 54 50 - 77 Trace 1017 - 1023	MW-7: 19.69
GP-2 (16') without filter 15:40 44.2 0.0 9.7 10.2 >100 50-77 11ace 1617-1625 GP-2 (16') with filter 15:40 44.2 0.0 9.4 2.9 59	

Sample Location:	Date:	Time	PID (ppm)	O ₂ (%)	CO ₂ (%)	CH₄ ^[2] (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)	Water Levels (ft BTOR)
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Notes:

- The explosive gas monitor baseline reading was 1 percent LEL. The meter did not zero for LEL readings and the corresponding methane readings were 0 percent; therefore, the readings of 1 percent are anomalous.

- The Landtec GEM 2000 combustible gas monitor measures explosive gases as a percent of methane by volume. The presence of other hydrocarbon gases affects methane readings.

-CO₂ readings started at 0.1 ppm.

-GHD field personnel noted the presence of a manhole (and a possible underground utility) located ~ 3 feet from GP-2 that may be contributing to elevated methane levels

Collected SUMMA canister samples at GP-2 (12')(16')

PID - Photoionization Detector

O₂ - Oxygen

CO₂ - Carbon Dioxide

CH₄ - Methane

LEL - Lower Explosive Limit

NM - Not measured

U - Qualified as non-detect due to issues with the filter

Value - Value is greater than LEL for methane (5 percent methane)

Source of weather data from July to October 2016:

https://www.wunderground.com/history/airport/KDAY/2016/9/28/DailyHistory.html?reg_city=®

state=&req_statename=&reqdb.zip=&reqdb.magic=&reqdb.wmo=

Table 2

GP-2 Analytical Results Summary - August 2016 South Dayton Dump and Landfill Moraine, Ohio

 Location ID:
 GP-2
 GP-2

 Sample Name:
 A-38443-081916-JC-001
 A-38443-081916-JC-002

 Sample Date:
 08/19/2016
 08/19/2016

 Depth:
 12 ft
 16 ft

Parameters	Unit		
Volatile Organic Compounds			
Methane	%v/v	3.9	4.0
1,1,1-Trichloroethane	ppbv	720 U	690 U
1,1,2,2-Tetrachloroethane	ppbv	1500 U	1400 U
1,1,2-Trichloroethane	ppbv	1300 U	1200 U
1,1-Dichloroethane	ppbv	620 U	600 U
1,1-Dichloroethene	ppbv	820 U	790 U
1,2,4-Trichlorobenzene	ppbv	2400 U	2300 U
1,2,4-Trimethylbenzene	ppbv	1500 U	1500 U
1,2-Dibromoethane (Ethylene dibromide)	ppbv	1100 U	1000 U
1,2-Dichlorobenzene	ppbv	1700 U	1600 U
1,2-Dichloroethane	ppbv	1100 U	1100 U
1,2-Dichloropropane	ppbv	1200 U	1200 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppbv	770 UJ	740 UJ
1,3,5-Trimethylbenzene	ppbv	1600 U	1500 U
1,3-Butadiene	ppbv	1500 U	1500 U
1,3-Dichlorobenzene	ppbv	1600 U	1500 U
1,4-Dichlorobenzene	ppbv	1500 U	1500 U
1,4-Dioxane	ppbv	1900 U	1800 U
2,2,4-Trimethylpentane	ppbv	26000	28000
2-Butanone (Methyl ethyl ketone) (MEK)	ppbv	4800 U	4600 U
2-Chlorotoluene	ppbv	1500 U	1500 U
2-Hexanone	ppbv	1400 U	1300 U
2-Phenylbutane (sec-Butylbenzene)	ppbv	1500 U	1500 U
4-Ethyl toluene	ppbv	1600 U	1500 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppbv	1100 U	1000 U
Acetone	ppbv	34000 U	32000 U
Allyl chloride	ppbv	1200 U	1100 U
Benzene	ppbv	1300 U	1300 U
Benzyl chloride	ppbv	1900 U	1800 U
Bromodichloromethane	ppbv	1100 U	1000 U
Bromoform	ppbv	1200 U	1100 U
Bromomethane (Methyl bromide)	ppbv	770 U	740 U
Butane	ppbv	280000	470000
Carbon disulfide	ppbv	740 U	720 U
Carbon tetrachloride	ppbv	910 U	880 U
Chlorobenzene	ppbv	1200 U	1100 U
Chlorodifluoromethane	ppbv	890 U	850 U
Chloroethane	ppbv	840 U	810 U
Chloroform (Trichloromethane)	ppbv	910 U	880 U
Chloromethane (Methyl chloride)	ppbv	3800 U	3700 U
cis-1,2-Dichloroethene	ppbv	1400 U	1400 U
cis-1,3-Dichloropropene	ppbv	1800 U	1700 U
Cyclohexane	ppbv	4100 J	25000
Cymene (p-lsopropyltoluene)	ppbv	1400 U	1300 U
Dibromochloromethane	ppbv	1000 U	970 U
Dichlorodifluoromethane (CFC-12)	ppbv	1600 U	1600 U

Table 2

GP-2 Analytical Results Summary - August 2016 South Dayton Dump and Landfill Moraine, Ohio

Location ID:	GP-2	GP-2
Sample Name:	A-38443-081916-JC-001	A-38443-081916-JC-002
Sample Date:	08/19/2016	08/19/2016
Depth:	12 ft	16 ft

Parameters	Unit		
Ethylbenzene	ppbv	1600 U	1600 U
Hexachlorobutadiene	ppbv	1900 U	1800 U
Hexane	ppbv	9100 J	33000
Isopropyl alcohol	ppbv	2300 U	2200 U
Isopropyl benzene	ppbv	1400 U	1400 U
m&p-Xylenes	ppbv	2900 U	2800 U
Methyl methacrylate	ppbv	1900 U	1800 U
Methyl tert butyl ether (MTBE)	ppbv	4100 U	3900 U
Methylene chloride	ppbv	3100 U	3000 U
N-Butylbenzene	ppbv	1100 U	1100 U
N-Heptane	ppbv	1100 U	9200 J
N-Propylbenzene	ppbv	1300 U	1300 U
Naphthalene	ppbv	2200 U	2100 U
o-Xylene	ppbv	1500 U	1400 U
Styrene	ppbv	1400 U	1300 U
tert-Butyl alcohol	ppbv	910 U	880 U
tert-Butylbenzene	ppbv	1600 U	1500 U
Tetrachloroethene	ppbv	960 U	920 U
Tetrahydrofuran	ppbv	1500 U	1500 U
Toluene	ppbv	2900 U	2800 U
trans-1,2-Dichloroethene	ppbv	1200 U	1200 U
trans-1,3-Dichloropropene	ppbv	1200 U	1100 U
Trichloroethene	ppbv	860 U	830 U
Trichlorofluoromethane (CFC-11)	ppbv	580 U	550 U
Trifluorotrichloroethane (CFC-113)	ppbv	740 U	720 U
Vinyl bromide (Bromoethene)	ppbv	840 UJ	810 UJ
Vinyl chloride	ppbv	1700 UJ	1600 UJ

Notes:

U - Not present at or above the associated value

UJ - Not detected; associated reporting limit is estimated

Table 3

Soil Gas Probe Field Monitoring Values
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:	Date:	Time	PID (ppm)	O ₂ (%)	CO ₂ (%)	CH ₄ (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation
GP22-13 (20') without filter		14:55	0.1	8.4	3.4	0.0	0		
GP22-13 (20') with filter		14:55	0.1	8.4	3.6	0.0	0		
GP23-13 (18.5') without filter	1	15:01	0.9	15.6	3.2	0.0	0		
GP23-13 (18.5') with filter	7/11/2013	15:01	0.9	15.0	2.1	0.0	0	60s - 70s	None
GP24A-13 (20') without filter	7 //11/2013	15:05	1.4	10.1	7.2	0.0	0	00s - 70s	None
GP24A-13 (20') without filter		15:05	1.4	8.6	7.5	0.0	0		
GP24B-13 (4.5') without filter	1	15:10	0.3	11.5	6.1	0.0	0	1	
GP24B-13 (4.5') with filter		15:10	0.3	11.4	5.9	0.0	0		
GP-7 (8') without filter	1	15:31	0.0	16.2	3.0	0.0	0		
GP-7 (8') with filter		15:31	0.0	16.1	3.2	0.0	0		
GP-7 (12') without filter		15:31	0.0	13.0	5.0	0.0	0		
GP-7 (12') with filter		15:31	0.0	13.4	4.8	0.0	Ō		
GP12-09 (6') without filter	1	15:25	0.1	0.9	10.2	0.5	12	1	
GP12-09 (6') with filter		15:25	0.1	1.2	11.3	0.6	12		None
GP22-13 (20') without filter	1	14:45	0.3	14.5	1.0	0.0	0	1	
GP22-13 (20') with filter	7/18/2013	14:45	0.3	14.6	1.3	0.1	1	70s - 90s	
GP23-13 (18.5') without filter	i	14:51	0.0	12.2	5.3	0.0	<u> </u>		
GP23-13 (18.5') with filter		14:51	0.0	12.4	6.0	0.1	1		
GP24A-13 (20') without filter	1	14:57	0.6	14.4	4.2	0.0	Ö	1	
GP24A-13 (20') without filter		14:57	0.6	14.2	4.8	0.0	0	_	
GP24B-13 (4.5') without filter	1	15:02	0.0	14.1	4.9	0.0	0		
GP24B-13 (4.5') with filter		15:02	0.0	16.8	3.1	0.0	Ö		
GP-7 (8') with filter		14:24	0.0	16.8	3.4	0.0	0		
GP-7 (8') without filter		14:24	0.0	16.7	3.2	0.0	0		
GP-7 (12') with filter		14:24	0.0	13.2	5.7	0.0	0		
GP-7 (12) with filter		14:24	0.0	13.2	5.7 6.1	0.0	0		
GP-7 (12) without filter		14:24	0.0	10.4	6.6	0.0	0		
GP-7 (16') with litter	7/25/2013	14:24	0.0	10.4	6.8	0.0	0	50s - 70s	None
	-						0	1	
GP12-09 (6') with filter		14:37 14:37	0.6 0.6	18.0	3.9 4.2	0.0 0.0	0		
GP12-09 (6') without filter	4			18.0	4.8	0.0	0	-	
GP23-13 (18.5') with filter		14:42	0.0	14.1			_		
GP23-13 (18.5') without filter		14:42	0.0	14.2	4.6	0.0	0		
GP23-13 (18.5') without filter		14:11	0.0	12.4	5.9	0.0	0		
GP23-13 (18.5') with filter	-	14:11	0.0	12.1	5.4	0.0	0	4	
GP-7 (8') without filter		14:17	0.0	16.7	3.1	0.0	0		
GP-7 (8') with filter		14:17	0.0	16.4	3.0	0.0	0		
GP-7 (12') without filter	8/1/2013	14:17	0.0	13.2	4.7	0.0	0	60s - 80s	None
GP-7 (12') with filter		14:17	0.0	13.4	4.9	0.0	0		
GP-7 (16') without filter		14:17	0.0	11.4	6.0	0.0	0		
GP-7 (16') with filter	-	14:17	0.0	11.1	6.1	0.0	0	1	
GP12-09 (6') without filter		14:30	0.1	7.8	7.3	0.3	6		
GP12-09 (6') with filter		14:30	0.1	8.3	7.8	0.2	4		

Table 3

Soil Gas Probe Field Monitoring Values
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:	Date:	Time	PID (ppm)	O ₂ (%)	CO ₂ (%)	CH ₄ (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation
GP23-13 (18.5') without filter		13:56	0.1	12.6	5.4	0.0	0		
GP23-13 (18.5') with filter		13:56	0.1	10.4	5.8	0.0	0		
GP-7 (8') without filter		13:40	0.0	16.4	4.7	0.0	0]	
GP-7 (8') with filter		13:40	0.0	16.1	4.5	0.0	0		
GP-7 (12') without filter	8/6/2013	13:40	0.0	13.1	5.4	0.0	0	60s - 80s	Nana
GP-7 (12') with filter	8/6/2013	13:40	0.0	13.4	4.9	0.0	0	608 - 608	None
GP-7 (16') without filter		13:40	0.0	10.5	6.1	0.0	0		
GP-7 (16') with filter		13:40	0.0	10.6	6.7	0.0	0		
GP12-09 (6') without filter		14:01	0.3	8.7	6.4	0.0	0	1	
GP12-09 (6') with filter		14:01	0.3	8.9	6.7	0.0	0		
GP12-09 (6') without filter		13:05	0.0	20.2	1.3	0.0	0		
GP12-09 (6') with filter		13:05	0.0	19.8	1.4	0.0	0		
GP23-13 (18.5') without filter		13:11	0.0	11.1	6.7	0.0	0	1	None
GP23-13 (18.5') with filter		13:11	0.0	9.4	6.7	0.0	0		
GP-7 (8') without filter	0/45/0040	13:17	0.0	12.8	5.9	0.0	0	1 40- 70-	
GP-7 (8') with filter	8/15/2013	13:17	0.0	14.5	4.6	0.0	0	40s - 70s	
GP-7 (12') without filter		13:17	0.0	13.0	4.9	0.0	0		
GP-7 (12') with filter		13:17	0.0	13.4	4.7	0.0	0		
GP-7 (16') without filter		13:17	0.0	9.3	7.6	0.0	0		
GP-7 (16') with filter		13:17	0.0	9.1	6.8	0.0	0		
GP12-09 (6') without filter		14:21	0.0	0.9	12.0	0.0	0		
GP12-09 (6') with filter		14:21	0.0	0.9	11.6	0.0	0		
GP23-13 (18.5') without filter		14:15	0.0	10.4	6.9	0.0	0	1	
GP23-13 (18.5') with filter		14:15	0.0	10.6	6.1	0.0	0		
GP-7 (8') without filter	8/22/2013	14:26	0.0	10.4	7.0	0.0	0	60s - 80s	Trace
GP-7 (8') with filter	0/22/2013	14:26	0.0	10.2	6.4	0.0	0	608 - 608	(0.06 in.)
GP-7 (12') without filter		14:26	0.0	9.5	7.4	0.0	0		
GP-7 (12') with filter		14:26	0.0	9.2	7.2	0.0	0		
GP-7 (16') without filter		14:26	0.0	8.2	7.9	0.0	0		
GP-7 (16') with filter		14:26	0.0	8.4	7.7	0.0	0		
GP12-09 (6') without filter		13:55	0.3	1.6	11.9	0.0	0		
GP12-09 (6') with filter		13:55	0.3	1.5	11.2	0.0	0		
GP23-13 (18.5') without filter		14:01	0.1	10.5	7.5	0.0	0	1	
GP23-13 (18.5') with filter		14:01	0.1	8.6	8.2	0.0	0		
GP-7 (8') without filter	8/27/2013	14:05	0.0	11.1	7.1	0.0	0	700 905	Nama
GP-7 (8') with filter	0/2//2013	14:05	0.0	10.4	7.3	0.0	0	70s - 80s	None
GP-7 (12') without filter		14:05	0.1	9.8	7.6	0.0	0		
GP-7 (12') with filter		14:05	0.1	9.2	7.6	0.0	0		
GP-7 (16') without filter		14:05	0.1	8.9	7.8	0.0	0		
GP-7 (16') with filter		14:05	0.1	8.9	7.5	0.0	0		

Table 3

Soil Gas Probe Field Monitoring Values
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:	Date:	Time	PID (ppm)	O ₂ (%)	CO ₂ (%)	CH ₄ (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation
GP12-09 (6') without filter		-	0.0	17.9	3.1	0.1	1		
GP12-09 (6') with filter		-	0.0	17.5	3.7	0.0	0		
GP23-13 (18.5') without filter		-	0.3	11.3	7.0	0.0	0		
GP23-13 (18.5') with filter		-	0.3	11.7	5.5	0.0	0]	
GP-7 (8') without filter	9/5/2013	-	0.0	11.0	7.2	0.0	0	50s - 80s	None
GP-7 (8') with filter	3/3/2013	-	0.0	11.3	5.6	0.0	0	303 - 003	None
GP-7 (12') without filter		-	0.0	10.3	7.5	0.0	0		
GP-7 (12') with filter		-	0.0	10.6	6.4	0.0	0		
GP-7 (16') without filter		-	0.0	8.4	8.6	0.0	0		
GP-7 (16') with filter		-	0.0	8.4	7.8	0.0	0		
GP23-13 (18.5') without filter		17:45	0.0	10.4	8.1	0.1	2		
GP23-13 (18.5') with filter		17:45	0.0	10.7	6.4	0.1	2		
GP-7 (8') without filter			0.0	10.9	7.6	0.0	0]	
GP-7 (8') with filter	9/12/2013		0.0	10.8	7.7	0.0	0	60-80s	0.29 inches
GP-7 (12') without filter	9/12/2013		0.1	8.3	9.3	0.0	0	60-808	
GP-7 (12') with filter			0.1	8.2	9.3	0.0	0		
GP-7 (16') without filter				7.8	9.3	0.0	0		
GP-7 (16') with filter				7.9	8.7	0.0	0		
GP-7 (8') without filter		14:18	0.0	11.5	7.1	0.0	0		
GP-7 (8') with filter		14:18	0.0	13.5	5.1	0.0	0	-	0.1 inches
GP-7 (12') without filter		14:23	0.0	11.3	7.0	0.0	0		
GP-7 (12') with filter		14:23	0.0	9.3	8.4	0.0	Ō		
GP-7 (16') without filter		14:27	0.0	7.9	10.0	0.0	Ō		
GP-7 (16') with filter		14:27	0.0	8.4	9.3	0.0	Ō		
GP12-09 (6') without filter	1	14:14	0.0	17.4	2.4	0.0	0		
GP12-09 (6') with filter	l	14:14	0.0	17.6	1.5	0.0	ō		
GP22-13 (20') without filter	10/17/2013	14:31	0.0	0.5	9.7	0.0	0	40s - 50s	
GP22-13 (20') with filter		14:31	0.0	1.0	8.9	0.0	Ö		
GP23-13 (18.5') without filter	1	14:35	0.0	8.7	10.0	0.0	0	1	
GP23-13 (18.5') with filter		14:35	0.0	8.2	10.0	0.0	Ö		
GP24A-13 (20') without filter	1	14:38	0.0	8.1	10.4	0.0	0	1	
GP24A-13 (20') without filter		14:38	0.0	10.8	7.9	0.0	Ö		
GP24B-13 (4.5') without filter		14:42	0.0	11.4	7.2	0.0	0	1	
GP24B-13 (4.5') with filter		14:42	11.8	5.9	0.0	0.0	Ö		
GP-7 (8') without filter		13:00	0.0	14.4	5.5	0.0	0		
GP-7 (8') with filter		13:00	0.0	15.5	4.3	0.0	0		
GP-7 (12') without filter		13:06	0.0	13.7	6.0	0.0	0		
GP-7 (12') with filter		13:06	0.0	13.7	5.5	0.0	0		
GP-7 (12) with filter		13:13	0.0	10.6	8.6	0.0	0		Trace (0.05
GP-7 (16') with filter	11/12/2013	13:13	0.0	11.7	6.7	0.0	0	20s - 30s	,
GP12-09 (6') without filter	┨	13:19	0.0	16.1	2.7	0.0	0	1	inches)
GP12-09 (6') with filter		13:19	0.0	16.1	2.7 1.9	0.0	0		
GP23-13 (18.5') without filter	┨	13:19	0.0	10.3	8.2	0.0	0	1	
` '		13:25	0.0		7.6	0.0	0		
GP23-13 (18.5') with filter	1	_∃ວ:∠ວ	0.0	10.1	0. /	U.U	U	I	l

Table 3

Soil Gas Probe Field Monitoring Values
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:	Date:	Time	PID (ppm)	O ₂ (%)	CO ₂ (%)	CH ₄ (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation
GP-7				Buried L	Inder Snow	& Ice			
GP12-09 (6') without filter		14:54	0.0	19.9	8.0	0.0	0	1	
GP12-09 (6') with filter	12/19/2013	14:54	0.0	19.0	0.4	0.0	0	30s - 40s	None
GP23-13 (18.5') without filter		14:57	0.0	12.1	8.3	0.0	0	1	
GP23-13 (18.5') with filter		14:57	0.0	12.4	7.0	0.0	0		
GP-7 (8') without filter		14:25	0.0	18.5	2.7	0.0	0		
GP-7 (8') with filter		14:25	0.0	19.0	1.2	0.0	0		
GP-7 (12') without filter		14:30	0.0	18.2	2.8	0.0	0		
GP-7 (12') with filter		14:30	0.0	18.4	1.6	0.0	0		
GP-7 (16') without filter		14:.36	0.0	16.2	4.9	0.0	0		
GP-7 (16') with filter		14:36	0.0	16.7	3.9	0.0	0		
GP12-09 (6') without filter	7	14:20	0.0	12.9	3.6	0.0	0	1	
GP12-09 (6') with filter	1/9/2014	14:20	0.0	12.6	2.9	0.0	0	20s - 30s	1 EE inches
GP22-13 (20') without filter	7 1/9/2014	14:00	0.0	8.5	6.3	0.0	0	208 - 308	1.55 inches
GP22-13 (20') with filter		14:00	0.0	15.8	2.5	0.0	0		
GP23-13 (18.5') without filter	7	14:05	0.0	14.2	6.1	0.0	0	1	
GP23-13 (18.5') with filter		14:05	0.0	16.8	3.2	0.0	0	-	
GP24A-13 (20') without filter		14:11	0.0	14.3	5.4	0.0	0		
GP24A-13 (20') with filter		14:11	0.0	17.7	2.8	0.0	0		
GP24B-13 (4.5') without filter		14:16	0.1	16.5	3.1	0.0	0		
GP24B-13 (4.5') with filter		14:16	0.1	15.5	2.7	0.0	0		
GP-7 (8') without filter		11:17	0.0	19.6	1.8	0.0	0		
GP-7 (8') with filter		11:17	0.0	19.9	1.2	0.0	0		
GP-7 (12') without filter			0.0	19.9	1.9	0.0	0		
GP-7 (12') with filter			0.0	20.2	0.6	0.0	0		
GP-7 (16') without filter	3/10/2014			19.8	2.8	0.0	0	10- 50-	Mana
GP-7 (16') with filter	3/10/2014			20.2	1.5	0.0	0	40s - 50s	None
GP12-09 (6') without filter		11:28	0.0	16.4	6.0	0.0	0	1	
GP12-09 (6') with filter		11:28	0.0	16.8	5.3	0.0	0		
GP23-13 (18.5') without filter			0.0	21.3	0.4	0.0	0	1	
GP23-13 (18.5') with filter			0.0	20.8	23	0.0	0		
GP-7 (8') without filter		11:37	0.0	19.2	1.9	0.0	0		
GP-7 (8') with filter		11:37	0.0	19.2	1.6	0.0	0		
GP-7 (12') without filter			0.0	18.9	2.8	0.0	0		
GP-7 (12') with filter			0.0	18.8	3.0	0.0	0		
GP-7 (16') without filter	4/2/2014		0.0	19.1	2.0	0.0	0	500	Trace (0.15
GP-7 (16') with filter	4/2/2014		0.0	19.2	2.3	0.0	0	50s	inches)
GP12-09 (6') without filter		11:50	0.0	21.2	0.3	0.0	0	1	inches)
GP12-09 (6') with filter		11:50	0.0	21.2	0.5	0.0	0		
GP23-13 (18.5') without filter		11:35		17.7	3.8	0.0	0	\dashv	
GP23-13 (18.5') with filter		11:35		17.6	4.2	0.0	0		

Table 3

Soil Gas Probe Field Monitoring Values
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:	Date:	Time	PID (ppm)	O ₂ (%)	CO ₂ (%)	CH ₄ (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation
GP-7				In	accessible				
GP12-09 (6') without filter	7	15:25	0.0	20.0	0.2	0.0	0	1	
GP12-09 (6') with filter		15:25	0.0	20.1	0.1	0.0	0		
GP22-13 (20') without filter		15:28	0.1	9.0	4.5	0.0	0	1	
GP22-13 (20') with filter		15:28	0.1	9.2	3.7	0.0	0		
GP23-13 (18.5') without filter	5/8/2014 ^[1]	15:31	0.0	16.9	3.0	0.0	0	75-85	None
GP23-13 (18.5') with filter		15:31	0.0	16.6	2.1	0.0	0		
GP24A-13 (20') without filter		15:40	0.0	14.7	3.5	0.0	0	1	
GP24A-13 (20') with filter		15:40	0.0	14.9	2.8	0.0	0		
GP24B-13 (4.5') without filter		15:44	0.0	16.5	3.0	0.0	0]	
GP24B-13 (4.5') with filter		15:44	0.0	16.6	2.8	0.0	0		
GP-7			Inaccessi	ble (unab	le to locate	d soil gas pro	be)		
GP12-09 (6') without filter		15:37	0.0	19.4	0.7	0.0	0	1	
GP12-09 (6') with filter		15:37	0.0	19.5	0.3	0.0	0		
GP22-13 (20')		In	accessibl	e (access	restricted	by property o	wner)		
GP23-13 (18.5') without filter	7/17/2014	15:41	0.0	13.7	4.3	0.0	0	70-75	None
GP23-13 (18.5') with filter	1/11/2014	15:41	0.0	13.7	4.0	0.0	0] /0-/3	None
GP24A-13 (20') without filter		15:44	0.0	12.0	5.5	0.0	0		
GP24A-13 (20') with filter		15:44	0.0	12.1	5.3	0.0	0	-	
GP24B-13 (4.5') without filter		15:47	0.0	13.0	5.2	0.0	0		
GP24B-13 (4.5') with filter		15:47	0.0	13.1	4.9	0.0	0		
GP-7	Inaccessible (unable to located soil gas probe)								
GP12-09 (6') without filter	1	14:55	0.0	20.0	0.9	0.0	0.0	1	None
GP12-09 (6') with filter		14:55	0.0	20.1	0.4	0.0	0.0		
GP22-13 (20')		In	accessibl	e (access	restricted	by property o	wner)		
GP23-13 (18.5') without filter	8/14/2014	15:00	0.0	13.1	4.9	0.0	0.0	70-80	
GP23-13 (18.5') with filter	0/14/2014	15:00	0.0	13.2	4.7	0.0	0.0		
GP24A-13 (20') without filter		15:03	0.0	13.2	5.8	0.0	0.0		
GP24A-13 (20') with filter		15:03	0.0	13.3	5.3	0.0	0.0		
GP24B-13 (4.5') without filter		15:06	0.0	15.5	4.8	0.0	0.0		
GP24B-13 (4.5') with filter		15:06	0.0	15.5	4.7	0.0	0.0		
GP-7			Inaccessi	ble (unab	le to locate	d soil gas pro	be)		
GP12-09 (6') without filter	7	15:58	0.0	20.0	0.9	0.0	0.0	1	
GP12-09 (6') with filter		15:58	0.0	20.1	0.5	0.0	0.0		
GP22-13 (20')		In	accessibl	e (access	restricted	by property o	wner)		
GP23-13 (18.5') without filter	8/21/2014	16:02	0.0	11.9	6.8	0.0	0.0	75-79	1.14 inches
GP23-13 (18.5') with filter	0/21/2014	16:02	0.0	12.2	5.8	0.0	0.0] /3-/9	1.14 IIICHES
GP24A-13 (20') without filter		16:05	0.0	13.3	6.2	0.0	0.0]	
GP24A-13 (20') with filter		16:05	0.0	13.3	6.0	0.0	0.0		
GP24B-13 (4.5') without filter		16:10	0.0	15.8	5.1	0.0	0.0		
GP24B-13 (4.5') with filter		16:10	0.0	15.7	4.6	0.0	0.0		
GP-7			Inaccessi	ble (unab	le to locate	d soil gas pro	be)		
GP12-09 (6') without filter	7	11:48	0.0	19.7	1.0	0.0	0.0	1	
GP12-09 (6') with filter		11:48	0.0	19.8	0.4	0.0	0.0		
GP22-13 (20')		In	accessibl	e (access	restricted	by property o	wner)		
GP23-13 (18.5') without filter	8/28/2014	11:50	1.0	13.2	6.1	0.0	0.0	75-80	None
GP23-13 (18.5') with filter	0/20/2014	11:50	1.0	13.5	4.5	0.0	0.0		иопе
GP24A-13 (20') without filter		11:55	1.0	14.1	5.4	0.0	0.0		
GP24A-13 (20') with filter		11:55	1.0	15.6	3.6	0.0	0.0]	
GP24B-13 (4.5') without filter		12:00	0.0	13.9	6.2	0.0	0.0		
GP24B-13 (4.5') with filter		12:00	0.0	14.0	5.6	0.0	0.0		

Table 3

Soil Gas Probe Field Monitoring Values
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:	Date:	Time	PID (ppm)	O ₂ (%)	CO ₂ (%)	CH ₄ (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation
GP-7 (8') without filter		14:25	0.0	14.3	4.6	0.0	0		
GP-7 (8') with filter		14:25	0.0	14.3	4.5	0.0	0		
GP-7 (12') without filter		14:30	0.0	12.0	6.4	0.0	0		
GP-7 (12') with filter		14:30	0.0	21.1	6.6	0.0	0		
GP-7 (16') without filter		14:36	0.0	10.6	7.0	0.0	0		
GP-7 (16') with filter		14:36	0.0	10.6	7.4	0.0	0		
GP12-09 (6') without filter		14:19	0.0	19.2	1.2	0.0	0		
GP12-09 (6') with filter	9/4/2014	14:19	0.0	19.1	1.5	0.0	0	85-90	None
GP22-13 (20')			accessibl	e (access		by property o			
GP23-13 (18.5') without filter		14:02	0.0	13.1	5.9	0.0	0		
GP23-13 (18.5') with filter		14:02	0.0	13.0	6.2	0.0	0		
GP24A-13 (20') without filter		14:07	0.0	14.2	5.9	0.0	0		
GP24A-13 (20') with filter		14:07	0.0	14.2	5.2	0.0	0		
GP24B-13 (4.5') without filter		14:13	0.0	13.7	5.6	0.0	0		
GP24B-13 (4.5') with filter		14:13	0.0	13.6	5.8	0.0	0		
GP-7 (8') without filter		13:06	0.2	13.9	5.4	0.0	0		
GP-7 (8') with filter		13:06	0.2	14.1	5.2	0.0	0		
GP-7 (12') without filter		13:12	0.3	12.2	6.7	0.0	0		0.3 inches
GP-7 (12') with filter		13:12	0.3	12.5	5.8	0.0	0	- 50s	
GP-7 (16') without filter		13:17	0.6	11.1	7.2	0.0	0		
GP-7 (16') with filter		13:17	0.6	11.0	7.4	0.0	0		
GP12-09 (6') without filter		12:35	0.0	12.3	6.8	0.0	0		
GP12-09 (6') with filter	40/0/0044	12:35	0.0	12.5	6.5	0.0	0		
GP22-13 (20') without filter	10/9/2014	12:41	0.0	7.9	6.1	0.0	0		
GP22-13 (20') with filter		12:41	0.0	7.8	6.3	0.0	0		
GP23-13 (18.5') without filter		12:48	0.0	13.6	5.7	0.0	0		
GP23-13 (18.5') with filter		12:48	0.0	13.8	6.0	0.0	0		
GP24A-13 (20') without filter		12:54	0.0	15.5	4.4	0.0	0	1	
GP24A-13 (20') with filter		12:54	0.0	15.8	4.6	0.0	0		
GP24B-13 (4.5') without filter		13:00	0.0	15.3	4.7	0.0	0	1	
GP24B-13 (4.5') with filter		13:00	0.0	15.3	4.5	0.0	0		
GP-7 (8') without filter		13:50	0.0	19.6	2.0	0.0	0		
GP-7 (8') with filter		13:50	0.0	19.8	0.8	0.0	Ō		
GP-7 (12') without filter		13:53	0.0	19.5	2.0	0.0	0		
GP-7 (12') with filter		13:53	0.0	19.8	1.3	0.0	0		
GP-7 (16') without filter		13:55	0.0	18.1	3.4	0.0	0		
GP-7 (16') with filter		13:55	0.0	18.4	1.5	0.0	Ō		
GP12-09 (6') without filter		13:57	0.0	21.4	2.8	0.0	0	1	
GP12-09 (6') with filter	11/26/2014	13:57	0.0	21.0	2.5	0.0	Ö	30-35	None
GP22-13 (20')			accessibl			by property o		1	
GP23-13 (18.5') without filter	-	13:59	0.0	17.5	3.8	0.0	0	1	
GP23-13 (18.5') with filter		13:59	0.0	18.6	1.3	0.0	Ö		
GP24A-13 (20') without filter		14:02	0.0	18.0	3.7	0.0	0	1	
GP24A-13 (20') with filter		14:02	0.0	20.7	1.8	0.0	0		
GP24B-13 (4.5') without filter		14:04	0.0	19.0	2.6	0.0	0		
C D 10 (-1.0) WILLIOUT III.CI		14:04	0.0	20.4	2.3	0.0	0		

Table 3

Soil Gas Probe Field Monitoring Values
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:	Date:	Time	PID (ppm)	O ₂ (%)	CO ₂ (%)	CH₄(%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation
GP-7 (8') without filter		16:07	0.0	19.4	2.6	0.0	0		
GP-7 (8') with filter		16:07	0.0	19.2	2.4	0.0	0		
GP-7 (12') without filter		16:10	0.0	18.8	3.1	0.0	0		
GP-7 (12') with filter		16:10	0.0	19.1	2.0	0.0	0		
GP-7 (16') without filter		16:13	0.0	19.5	2.2	0.0	0		
GP-7 (16') with filter		16:13	0.0	19.6	1.4	0.0	0		
GP12-09 (6') without filter		16:16	0.0	20.8	1.2	0.0	0	25-35	
GP12-09 (6') with filter	2/6/2015	16:16	0.0	20.9	1.1	0.0	0		None
GP22-13 (20')	1	Ina	accessibl	e (access	restricted l	oy property o	wner)	1	
GP23-13 (18.5') without filter	1	16:19	0.0	17.1	4.9	0.0	0	1	
GP23-13 (18.5') with filter		16:19	0.0	17.0	3.4	0.0	0		
GP24A-13 (20') without filter	1	16:23	0.0	16.6	4.6	0.0	0	1	
GP24A-13 (20') with filter		16:23	0.0	18.3	3.0	0.0	0		
GP24B-13 (4.5') without filter	1	16:26	0.0	17.8	3.2	0.0	0	1	
GP24B-13 (4.5') with filter		16:26	0.0	17.9	2.4	0.0	0		
GP-7 (8') without filter		16:14	0.0	17.4	2.8	0.0	0		
GP-7 (8') with filter		16:14	0.0	17.5	2.0	0.0	0		
GP-7 (12') without filter		16:16	0.0	16.7	3.2	0.0	ő		
GP-7 (12') with filter		16:16	0.0	16.9	2.8	0.0	Ö		
GP-7 (16') without filter		16:18	0.0	16.7	3.1	0.0	Ö		
GP-7 (16') with filter		16:18		16.9	2.3	0.0	Ö		
GP12-09 (6') without filter	1	16:20	0.0	20.7	0.6	0.0	0		
GP12-09 (6') with filter		16:20	0.0	21.0	0.4	0.0	0		None
GP22-13 (20') without filter	5/20/2015	16:22	0.0	7.3	6.0	0.0	0	50-60	
GP22-13 (20') with filter		16:22	0.0	7.3 7.2	5.4	0.0	0		
GP23-13 (18.5') without filter	┪	16:26	0.0	17.5	2.2	0.0	0		
GP23-13 (18.5') with filter		16:26	0.2	17.8	1.8	0.0	0		
GP24A-13 (20') without filter	┪	16:29	0.0	14.9	4.4	0.0	0		
. ,		16:29	0.0	15.0	3.7	0.0	0		
GP24A-13 (20') with filter GP24B-13 (4.5') without filter	-	16:31	0.0	16.8	3.8	0.0	0	-	
` ′			0.0		2.9	0.0	0		
GP24B-13 (4.5') with filter		16:31	0.0	16.9	6.1	0.0	0		
GP-7 (8') without filter		14:07		11.8			_		
GP-7 (8') with filter		14:07	0.0	13.4	4.6	0.0	0		
GP-7 (12') without filter		14:10	0.0	11.9	6.2	0.0	0		
GP-7 (12') with filter		14:10	0.0	11.5	5.8	0.0	0		
GP-7 (16') without filter		14:13	0.0	11.2	6.1	0.0	0		
GP-7 (16') with filter	4	14:13	0.0	11.3	5.6	0.0	0		
GP12-09 (6') without filter		14:17	0.0	19.0	1.0	0.0	0		
GP12-09 (6') with filter	8/20/2015	14:17	0.0	19.2	0.6	0.0	0	65-70	Trace
GP22-13 (20') without filter] 3/25/25/6	14:20	0.0	2.7	7.8	0.0	0	""	1,400
GP22-13 (20') with filter	1	14:20	0.0	2.6	7.3	0.0	0		
GP23-13 (18.5') without filter	ſ	14:24	0.0	13.8	4.9	0.0	0		
GP23-13 (18.5') with filter	_	14:24	0.0	13.8	4.8	0.0	0]	
GP24A-13 (20') without filter		14:28	0.0	13.4	6.4	0.0	0		
GP24A-13 (20') with filter		14:28	0.0	13.2	6.2	0.0	0		
GP24B-13 (4.5') without filter		14:32	0.0	13.4	6.4	0.0	0		
GP24B-13 (4.5') with filter		14:32	0.0	13.2	6.2	0.0	0	<u> </u>	

Table 3

Soil Gas Probe Field Monitoring Values
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:	Date:	Time	PID (ppm)	O ₂ (%)	CO ₂ (%)	CH₄(%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation
GP-7 (8') without filter		14:45	0.0	13.8	4.9	0.0	0		
GP-7 (8') with filter		14:45	0.0	13.8	3.9	0.0	0		
GP-7 (12') without filter		14:47	0.0	13.2	5.3	0.0	0		
GP-7 (12') with filter		14:47	0.0	13.3	4.6	0.0	0		
GP-7 (16') without filter		14:50	0.0	11.2	7.3	0.0	0		
GP-7 (16') with filter		14:50	0.0	11.4	6.2	0.0	00]	
GP12-09 (6') without filter		14:55	0.0	20.1	0.4	0.0	0		
GP12-09 (6') with filter	11/5/2015	14:55	0.0	20.2	0.2	0.0	0	60-70	Trace
GP22-13 (20') without filter	1	14:42	0.0	1.6	9.2	0.0	0	33.3	11455
GP22-13 (20') with filter		14:42	0.0	1.4	8.1	0.0	0		
GP23-13 (18.5') without filter		14:38	0.0	11.7	7.5	0.0	0		
GP23-13 (18.5') with filter	4	14:38	0.0	11.9	6.8	0.0	0		
GP24A-13 (20') without filter		14:30	0.0	11.5	8.0	0.0	0		
GP24A-13 (20') with filter	4	14:30	0.0	11.7	6.9	0.0	0	-	
GP24B-13 (4.5') without filter		14:34	0.0	14.2	5.2	0.0	0		
GP24B-13 (4.5') with filter		14:34	0.0	14.3	5.0	0.0	0		
GP-7 (8') without filter		14:51	0.0	18.2	3.5	0.0	0		
GP-7 (8') with filter		14:51	0.0	18.6	1.4	0.0	0		
GP-7 (12') without filter		14:55	0.0	18.5	2.9	0.0	0	35-45	Trace
GP-7 (12') with filter		14:55	0.0	18.8	2.8	0.0	0		
GP-7 (16') without filter		14:58	0.0	18.8	2.5	0.0	0		
GP-7 (16') with filter		14:58	0.0	18.8	2.2	0.0	0		
GP12-09 (6') without filter		15:00	0.0	18.8	2.3	0.0	0		
GP12-09 (6') with filter	1/28/2016	15:00	0.0	20.8	2.1	0.0	0		
GP22-13 (20') without filter	7 1/20/2016	15:03	0.0	4.5	8.5	0.0	0		
GP22-13 (20') with filter		15:03	0.0	3.0	7.8	0.0	0		
GP23-13 (18.5') without filter	1	15:08	0.0	12.9	7.5	0.0	0		
GP23-13 (18.5') with filter		15:08	0.0	12.9	6.5	0.0	0		
GP24A-13 (20') without filter	7	15:10	0.0	16.4	4.1	0.0	0		
GP24A-13 (20') with filter		15:10	0.0	17.2	1.9	0.0	0		
GP24B-13 (4.5') without filter	1	15:13	0.0	13.9	4.7	0.0	0	1	
GP24B-13 (4.5') with filter		15:13	0.0	14.4	4.2	0.0	ō		
GP-7 (8') without filter		14:37	0.0	12.7	5.8	0.0	0		
GP-7 (8') with filter		14:37	0.0	14.1	5.0	0.0	0		
GP-7 (12') without filter		14:40	0.0	12.3	6.0	0.0	0		
GP-7 (12') with filter		14:40	0.0	12.3	5.5	0.0	0		
GP-7 (12) with filter		14:45	0.0	12.4	5.8	0.0	0		
. ,		14:45	0.0	12.4	5.6 5.4	0.0	0		
GP-7 (16') with filter	┨	14:48	0.0	19.3	1.0	0.0	0	1	
GP12-09 (6') without filter				19.3		0.0	0		
GP12-09 (6') with filter	7/21/2016	14:48	0.4		0.8 6.2	0.0	0	88-91	None
GP22-13 (20) without filter		14:52	0.3	6.0			=		
GP22-13 (20') with filter	-	14:52	0.3	5.4	6.1	0.0	0	-	
GP23-13 (18.5') without filter		14:55	0.4	12.8	6.1	0.0	0		
GP23-13 (18.5') with filter	4	14:55	0.4	12.9	6.0	0.0	0	4	
GP24A-13 (20') without filter		14:59	0.0	10.5	7.5	0.0	0		
GP24A-13 (20') with filter	_	14:59	0.0	10.7	7.2	0.0	0	1	
GP24B-13 (4.5') without filter		15:04	0.0	13.0	6.9	0.0	0		
GP24B-13 (4.5') with filter		15:04	0.0	12.9	6.7	0.0	0		

Table 3

Soil Gas Probe Field Monitoring Values
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:	Date:	Time	PID (ppm)	O ₂ (%)	CO ₂ (%)	CH₄(%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation
GP-7 (8') without filter		11:00	0.2	12.1	6.1	0.0	0		
GP-7 (8') with filter		11:00	0.2	15.3	3.6	0.0	0		
GP-7 (12') without filter		10:54	0.1	13.8	4.9	0.0	0		
GP-7 (12') with filter		10:54	0.1	12.3	5.8	0.0	0		
GP-7 (16') without filter		11:04	0.0	11.1	6.3	0.0	0		
GP-7 (16') with filter		11:04	0.0	11.5	5.5	0.0	0		
GP12-09 (6') without filter		10:16	1.5	19.3	1.2	0.0	0		None
GP12-09 (6') with filter	7/29/2016	10:16	1.5	19.6	1.1	0.0	0	85-86	
GP22-13 (20') without filter	1/25/2010	10:35	48.8	0.3	8.7	0.0	0		None
GP22-13 (20') with filter		10:35	48.8	1.0	8.4	0.0	0		
GP23-13 (18.5') without filter		10:02	87.0	12.3	7.2	0.0	0		
GP23-13 (18.5') with filter		10:02	87.0	12.4	6.9	0.0	0		
GP24A-13 (20') without filter		9:51	1081.0	7.1	11.2	0.0	0		
GP24A-13 (20') with filter		9:51	1081.0	8.2	10.4	0.0	0		
GP24B-13 (4.5') without filter		9:56	429.2	13.8	7.2	0.0	0		
GP24B-13 (4.5') with filter		9:56	429.2	13.7	7.3	0.0	0		
GP-7 (8') without filter		16:53	0.0	11.4	6.3	0.0	0		
GP-7 (8') with filter		16:53	0.0	11.5	6.1	0.0	0		
GP-7 (12') without filter		16:57	0.0	11.0	6.7	0.0	0		
GP-7 (12') with filter		16:57	0.0	11.0	6.4	0.0	0	- 87-91	
GP-7 (16') without filter		17:00		10.5	6.6	0.0	0		
GP-7 (16') with filter		17:00		10.6	6.4	0.0	0		
GP12-09 (6') without filter		16:45	0.0	18.8	1.4	0.0	0		
GP12-09 (6') with filter	8/5/2016	16:45	0.0	19.0	1.2	0.0	0		None
GP22-13 (20') without filter	0/3/2010	15:37	0.0	0.3	8.6	0.0	0		None
GP22-13 (20') with filter		15:37	0.0	3.4	6.9	0.0	0		
GP23-13 (18.5') without filter		17:03	0.0	11.4	6.7	0.0	0		
GP23-13 (18.5') with filter		17:03	0.0	12.2	5.9	0.0	0		
GP24A-13 (20') without filter		17:26	0.0	6.2	10.4	0.0	0		
GP24A-13 (20') with filter		17:26	0.0	6.2	10.3	0.0	0]	
GP24B-13 (4.5') without filter		17:31	0.0	12.5	6.4	0.0	0		
GP24B-13 (4.5') with filter		17:31	0.0	12.8	6.3	0.0	0		
GP-7 (8') without filter		11:00	0.0	12.5	6.3	0.0	0		
GP-7 (8') with filter		11:00	0.0	12.6	6.2	0.0	0		
GP-7 (12') without filter		11:06	0.0	11.7	7.0	0.0	0		
GP-7 (12') with filter		11:06	0.0	11.9	6.7	0.0	0	[
GP-7 (16') without filter		11:13	0.0	10.8	7.2	0.0	0	[
GP-7 (16') with filter		11:13	0.0	10.9	7.1	0.0	0]	
GP12-09 (6') without filter		11:19	0.0	18.4	1.4	0.0	0		
GP12-09 (6') with filter	8/13/2016	11:19	0.0	18.5	1.6	0.0	0	79 - 84	Trace
GP22-13 (20') without filter	3,13,2010			Ni	access. B	&G closed		'3-04	Tace
GP22-13 (20') with filter	_			IN		ao dioseu.]	
GP23-13 (18.5') without filter		10:45	0.0	10.9	7.4	0.0	0		
GP23-13 (18.5') with filter		10:45	0.0	11.1	7.5	0.0	0]	
GP24A-13 (20') without filter		10:35	0.2	6.5	11.9	0.0	0	[
GP24A-13 (20') with filter		10:35	0.2	6.6	11.8	0.0	0]	
GP24B-13 (4.5') without filter		10:25	3.2	12.8	7.3	0.0	0	[
GP24B-13 (4.5') with filter		10:25	3.2	13.0	7.2	0.0	0		

Table 3

Soil Gas Probe Field Monitoring Values
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:	Date:	Time	PID (ppm)	O ₂ (%)	CO ₂ (%)	CH₄(%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation
GP-7 (8') without filter		13:01	0.0	11.6	6.2	0.0	0		
GP-7 (8') with filter		13:01	0.0	13.9	5.2	0.0	0		
GP-7 (12') without filter		13:07	0.0	10.7	7.1	0.0	0		
GP-7 (12') with filter		13:07	0.0	10.7	6.6	0.0	0		
GP-7 (16') without filter		13:10	0.0	10.8	7.0	0.0	0		
GP-7 (16') with filter		13:10	0.0	10.8	6.8	0.0	0	1	
GP12-09 (6') without filter		13:22	0.0	19.2	1.1	0.0	0		
GP12-09 (6') with filter	8/19/2016	13:22	0.0	19.1	8.0	0.0	0	77-86	None
GP22-13 (20') without filter	7 0/19/2010	13:52	0.0	0.6	8.6	0.0	0] //-00	None
GP22-13 (20') with filter		13:52	0.0	3.4	6.5	0.0	0		
GP23-13 (18.5') without filter		13:27	0.0	10.7	7.5	0.0	0	1	
GP23-13 (18.5') with filter		13:27	0.0	11.3	6.8	0.0	0		
GP24A-13 (20') without filter		13:38	0.0	10.3	7.6	0.0	0]	
GP24A-13 (20') with filter		13:38	0.0	10.4	7.5	0.0	0		
GP24B-13 (4.5') without filter		13:34	0.0	6.7	11.5	0.0	0	1	
GP24B-13 (4.5') with filter		13:34	0.0	7.8	9.9	0.0	0		
GP-7 (8') without filter		13:10	0.0	11.5	6.3	0.0	0		
GP-7 (8') with filter		13:10	0.0	11.5	6.4	0.0	Ō		
GP-7 (12') without filter		13:16	0.0	10.5	7.0	0.0	0		None
GP-7 (12') with filter		13:16	0.0	10.4	6.9	0.0	Ō		
GP-7 (16') without filter		13:25	0.0	9.9	7.0	0.0	Ō	75-80	
GP-7 (16') with filter		13:25	0.0	9.8	6.7	0.0	Ö		
GP12-09 (6') without filter		12:37	0.0	19.0	1.3	0.0	0		
GP12-09 (6') with filter		12:37	0.0	19.0	1.6	0.0	Ö		
GP22-13 (20') without filter	8/23/2016	12:47	0.0	0.3	8.9	0.0	0		
GP22-13 (20') with filter		12:47	0.0	0.1	8.8	0.0	Ö		
GP23-13 (18.5') without filter		12:25	0.0	9.6	8.8	0.0	0		
GP23-13 (18.5') with filter		12:25		9.7	8.0	0.0	Ö		
GP24A-13 (20') without filter	=	12:05	0.0	6.3	12.3	0.0	0	1	
GP24A-13 (20') with filter		12:05	0.0	6.2	12.3	0.0	0		
GP24B-13 (4.5') without filter	-	12:13	0.0	9.9	8.1	0.0	0		
GP24B-13 (4.5') with filter		12:13	0.0	9.8	8.1	0.0	0		
GP-7 (8') without filter		12:34	0.0	11.5	6.8	0.0	0		
GP-7 (8') with filter		12:34	0.0	11.6	6.7	0.0	0		
GP-7 (12') without filter		12:39	0.0	10.4	7.6	0.0	0		
GP-7 (12) with filter		12:39	0.0	10.4	7.6 7.5	0.0	0		
` '		12:39	0.0	10.0	7.3 7.7	0.0	0		
GP-7 (16') without filter									
GP-7 (16') with filter	4	12:43	0.0	10.1	7.5	0.0	0	-	
GP12-09 (6') without filter			No Sit	e Access	: GHD Lock	Removed			
GP12-09 (6') with filter	8/29/2016	10:50	E 2	0.0	0.0	0.0		79-88	None
GP22-13 (20) without filter		12:58	5.2	0.2	9.6	0.0	0		
GP22-13 (20') with filter	4	12:58	5.2	0.5	9.4	0.0	0	- 1	
GP23-13 (18.5') without filter		12:26	9.0	10.2	7.5	3.4	68		
GP23-13 (18.5') with filter	4	12:26	9.0	10.3	7.1	3.3	67		
GP24A-13 (20') without filter		12:17	119.5	6.1	11.5	0.0	0		
GP24A-13 (20') with filter	_	12:17	119.5	6.2	9.4	0.0	0	1	
GP24B-13 (4.5') without filter		12:11	425.8	11.1	8.4	0.0	0		
GP24B-13 (4.5') with filter		12:11	425.8	11.0	8.4	0.0	0		

Table 3

Soil Gas Probe Field Monitoring Values
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:	Date:	Time	PID (ppm)	O ₂ (%)	CO ₂ (%)	CH ₄ (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	
GP-7 (8') without filter			0.0	11.6	6.3	0.0	0			
GP-7 (8') with filter			0.0	11.5	6.4	0.0	0			
GP-7 (12') without filter			0.0	10.0	7.5	0.0	0			
GP-7 (12') with filter			0.0	9.9	7.2	0.0	0			
GP-7 (16') without filter			0.0	9.2	7.5	0.0	0			
GP-7 (16') with filter			0.0	9.0	7.1	0.0	0			
GP12-09 (6') without filter			0.0	19.1	0.7	0.0	0	1		
GP12-09 (6') with filter	0.7.0040	1300 to	0.0	19.0	8.0	0.0	0	75 00		
GP22-13 (20') without filter	9/7/2016	1440	0.0	0	9.1	0.0	0	75 - 90	None	
GP22-13 (20') with filter				0.0	Ō	9.1	0.0	Ō		
GP23-13 (18.5') without filter			0.0	9.5	7.8	0.0	0	1		
GP23-13 (18.5') with filter			0.0	9.5	7.7	0.0	Ö			
GP24A-13 (20') without filter	7		0.0	5.2	13.1	0.0	0	1		
GP24A-13 (20') with filter			0.0	5.1	13.1	0.0	0			
GP24B-13 (4.5') without filter			0.0	11.5	8.0	0.0	0	1		
GP24B-13 (4.5') with filter			0.0	11.3	8.1	0.0	Ö			
GP-7 (8') without filter			0.0	11.6	6.2	0.0	0			
GP-7 (8') with filter			0.0	11.5	6.1	0.0	0			
GP-7 (12') without filter			0.0	9.8	7.8	0.0	0			
GP-7 (12) with filter			0.0	9.9	7.8 7.7	0.0	0			
` '			0.0	9.9 9.5	7.7 7.8	0.0	0			
GP-7 (16') without filter			1				0			
GP-7 (16') with filter	-		0.0	9.5	7.7	0.0				
GP12-09 (6') without filter		4000.	0.0	19.2	0.9	0.0	0			
GP12-09 (6') with filter	9/14/2016	1200 to 1340	0.0 19.3 0.8 0.0 0.0 0.0 9.9 0.0	0	75 - 85	Trace				
GP22-13 (20') without filter		1340					1			
GP22-13 (20') with filter			0.0	0.0	9.7	0.0	1			
GP23-13 (18.5') without filter			0.0	9.1	8.9	0.0	0			
GP23-13 (18.5') with filter			0.0	9.1	8.8	0.0	0			
GP24A-13 (20') without filter			0.0	5.2	13.1	0.0	0			
GP24A-13 (20') with filter			0.0	5.1	13.0	0.0	0			
GP24B-13 (4.5') without filter			0.0	11.2	8.0	0.0	0			
GP24B-13 (4.5') with filter			0.0	10.8	8.0	0.0	0			
GP-7 (8') without filter		14:45	0.0	9.6	5.8	0.0	0			
GP-7 (8') with filter		14:45	0.0	9.5	5.7	0.0	0			
GP-7 (12') without filter		14:52	0.0	8.0	7.4	0.0	0			
GP-7 (12') with filter		14:52	0.0	7.9	7.2	0.0	0			
GP-7 (16') without filter		15:00	0.0	7.5	7.5	0.0	0			
GP-7 (16') with filter	4	15:00	0.0	7.5	7.2	0.0	0	1		
GP12-09 (6') without filter		13:51	0.0	19.0	0.7	0.0	0			
GP12-09 (6') with filter	9/20/2016	13:51	0.0	19.2	0.5	0.0	0	72 - 86	None	
GP22-13 (20') without filter		14:00	0.0	0.0	9.7	0.0	0			
GP22-13 (20') with filter	4	14:00	0.0	0.0	9.6	0.0	0	4		
GP23-13 (18.5') without filter		13:39	0.0	8.7	8.5	0.0	0			
GP23-13 (18.5') with filter	4	13:39	0.0	8.7	8.4	0.0	0	-		
GP24A-13 (20') without filter		13:16	0.0	5.0	13.4	0.0	0			
GP24A-13 (20') with filter	4	13:16	0.0	4.8	13.5	0.0	0	-		
GP24B-13 (4.5') without filter		13:25	0.0	11.6	7.1	0.0	0			
GP24B-13 (4.5') with filter		13:25	0.0	11.0	7.3	0.0	0			

Table 3

Soil Gas Probe Field Monitoring Values
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:	Date:	Time	PID (ppm)	O ₂ (%)	CO ₂ (%)	CH₄(%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation
GP-7 (8') without filter		13:53	0.0	12.9	6.6	0.0	0		
GP-7 (8') with filter		13:53	0.0	12.5	6.8	0.0	0		
GP-7 (12') without filter		14:00	0.0	10.5	8.7	0.0	0		
GP-7 (12') with filter		14:00	0.0	10.5	8.5	0.0	0		
GP-7 (16') without filter		14:02	0.0	9.6	8.8	0.0	0		
GP-7 (16') with filter		14:02	0.0	9.5	9.0	0.0	0		
GP12-09 (6') without filter		14:10	0.0	20.0	0.9	0.0	0]	
GP12-09 (6') with filter	9/28/2016	14:10	0.0	20.1	1.1	0.0	0	50 - 60	1 inch
GP22-13 (20') without filter	3/20/2010	14:31	0.0	0.0	11	0.0	0	50 - 60	HILLI
GP22-13 (20') with filter		14:31	0.0	0.0	10.8	0.0	0		
GP23-13 (18.5') without filter		13:27	0.0	9.6	9.7	0.0	0	1	
GP23-13 (18.5') with filter		13:27	0.0	9.7	9.4	0.0	0		
GP24A-13 (20') without filter		13:09	0.0	13.2	7.3	0.0	0		
GP24A-13 (20') with filter		13:09	0.0	13.1	7.3	0.0	0	-	
GP24B-13 (4.5') without filter	7	13:17	0.0	5.1	14.0	0.0	0		
GP24B-13 (4.5') with filter		13:17	0.0	5.1	13.8	0.0	0		
GP-7 (8') without filter		10:55	0.0	12.2	6.0	0.0	0.0		
GP-7 (8') with filter		10:55	0.0	12.3	5.9	0.0	0.0		
GP-7 (12') without filter		10:59	0.0	9.9	7.7	0.0	0.0		
GP-7 (12') with filter		10:59	0.0	9.9	7.7	0.0	0.0	- 55 - 79	
GP-7 (16') without filter		11:03	0.0	8.4	8.4	0.0	0.0		
GP-7 (16') with filter		11:03	0.0	8.5	8.3	0.0	0.0		
GP12-09 (6') without filter		11:30	0.0	20.2	0	0.0	0.0		
GP12-09 (6') with filter	10/7/0010	11:30	0.0	19.5	Ō	0.0	0.0		
GP22-13 (20') without filter	10/7/2016	13:05	0.0	0.0	10.5	0.0	0		None
GP22-13 (20') with filter		13:05	0.0	10.2	9.6	0.0	0		
GP23-13 (18.5') without filter	7	10:45	0.0	9.0	9.5	0.0	0.0	1	
GP23-13 (18.5') with filter		10:45	0.0	9.2	9.0	0.0	0.0		
GP24A-13 (20') without filter	7	10:34	0.0	9.9	13.8	0.0	0.0	1	
GP24A-13 (20') with filter		10:34	0.0	10.2	10.7	0.0	0.0		
GP24B-13 (4.5') without filter		10:38	0.0	11.6	7.6	0.0	0.0	1	
GP24B-13 (4.5') with filter		10:38	0.0	11.7	7.6	0.0	0.0		
GP-7 (8') without filter	1	14:42	0.0	13.0	5.5	0.0	0.0		
GP-7 (8') with filter		14:42	0.0	13.1	5.2	0.0	0.0		
GP-7 (12') without filter		14:38	0.0	10.9	7.3	0.0	0.0		
GP-7 (12') with filter		14:38	0.0	11.0	7.0	0.0	0.0		
GP-7 (12) with filter		14:33	0.0	9.0	8.4	0.0	0.0		
GP-7 (16') with filter		14:33	9.1	8.0	0.0	0.0	0		
GP12-09 (6') without filter	┥ !	14:52	0.0	19.3	0.5	0.0	0	1	
GP12-09 (6) with filter		14:52	0.0	19.5	0.5	0.0	0		
GP22-13 (20') without filter	10/12/2016	15:12	0.0	0.0	10.7	0.0	2	50 - 77	Trace
GP22-13 (20) Without filter GP22-13 (20') with filter		15:12	0.0	0.0	10.7	0.1	0		
` ′	┥ !	14:25	0.0		9.2	0.0	0	1	
GP23-13 (18.5') without filter		14:25 14:25	0.0	8.9	9.2 9.0	0.0	0		
GP23-13 (18.5') with filter	┥ !			8.9			0	1	
GP24A-13 (20') without filter		14:02	0.0	4.7	14.1	0.0			
GP24A-13 (20') with filter	-	14:02	0.0	4.6	13.9	0.0	<u> </u>	-	
GP24B-13 (4.5') without filter		14:15	0.0	16.2	6.8	0.0	_		
GP24B-13 (4.5') with filter		14:15	0.0	15.7	6.8	0.0	0	i	

Notes:

-CO $_2$ readings started at 0.1 ppm.

PID - Photoionization Detector

 $\begin{array}{ll} {\rm O}_2 & - {\rm Oxygen} \\ {\rm CO}_2 & - {\rm Carbon\ Dioxide} \\ {\rm CH}_4 & - {\rm Methane} \end{array}$

LEL - Lower Explosive Limit

NM - Not measured

U - Qualified as non-detect due to issues with the filter

Value - Value is greater than LEL for methane (5 percent methane)

Source of weather data for July to October 2016:

 $https://www.wunderground.com/history/airport/KDAY/2016/9/28/DailyHistory.html?req_city$

=&req_state=&req_statename=&reqdb.zip=&reqdb.magic=&reqdb.wmo=

Table 4

Summary of Soil Gas Field Screening Values - 2009

South Dayton Dump and Landfill Site

Moraine, Ohio

Sample Location:		GP01-09			GP02-09			GP03-09			GP04-09		ı
Sample Date:	9/18/2009	10/14/2009	12/10/2009	9/18/2009	10/14/2009	12/10/2009	9/18/2009	10/14/2009	12/10/2009	9/18/2009	10/14/2009	12/10/2009	ı
													ı
Parameter													
Methane (%)	28.1	28.4	23.2	19.6	19.8	20.5	0	0	0	7.9	7.8	0.6	1
Carbon Dioxide (%)	16.5	14.3	11.2	14.2	14.9	16.0	8	5.5	0.8	0.2	0.1	0.1	ı
Oxygen (%)		0	0		1.3	0		12.9	18.7		2.2	17.8	ı
Lower Explosive Limit (%)		> 100	> 100		> 100	> 100		0	0		> 100	11	ı
Manometer Pressure (inches H ₂ O)		-5.2	0		0	0		0	0		0	0	i
PID (ppm)		0	0		0	0		0	0		0	0	ı
Barometric Pressure (in. Hg)	29.28	29.3	29.19	29.28		29.15	29.28		29.15	29.28	29.27	28.64	ı
Balance (%)		57.2	65.6		63.9	63.5		82.2	80.5		9	81.5	ı
Ambient Air Temperature (⁰F)			19			17			17			32	ı

Table 4

Summary of Soil Gas Field Screening Values - 2009 South Dayton Dump and Landfill Site Moraine, Ohio

Sample Location:		GP05-09			GP06-09			GP07-09			GP08-09		l
Sample Date:	9/18/2009	10/14/2009	12/10/2009	9/18/2009	10/14/2009	12/9/2009	9/18/2009	10/14/2009	12/9/2009	9/18/2009	10/14/2009	12/9/2009	i
													i
Parameter													i
Methane (%)	0	0	0	0.1	0	0	0	0	0	0	0	0	i
Carbon Dioxide (%)	11	11.1	11.3	8.2	6.1	2.5	13.6	12.8	5.1	10.5	9.1	3.9	ı
Oxygen (%)		5.3	3.2		10.1	16		4.4	13.9		7.8	16	l
Lower Explosive Limit (%)		0	0		0	0		0	0		0	0	ı
Manometer Pressure (inches H ₂ O)		0	0		0	-1.1		0	0		0	0	ı
PID (ppm)		0	0		0	0		0	0		0	0	i
Barometric Pressure (in. Hg)	29.28	29.27	29.15	29.28	29.27	28.58	29.28	29.27	28.58	29.28	29.27	28.58	i
Balance (%)		83.6	85.5		83.8	81.5		82.9	81		83	80.1	ı
Ambient Air Temperature (°F)			17			35			35			35	ı

Table 4

Summary of Soil Gas Field Screening Values - 2009

South Dayton Dump and Landfill Site

Moraine, Ohio

Sample Location:		GP09-09			GP10-09		GP1	1-09		GP12-09	
Sample Date:	9/18/2009	10/14/2009	12/9/2009	9/18/2009	10/14/2009	12/9/2009	9/18/2009	12/9/2009	9/18/2009	10/14/2009	12/10/2009
Parameter											
Methane (%)	0.1	0	0	0.1	0	0	0	0	0.1	0	0
Carbon Dioxide (%)	9.2	8.1	4.4	3.5	3.6	2.4	6.5	1.3	2	2.7	2
Oxygen (%)		12.1	13.5	-	0.4	8.3		17.8		17.9	15.8
Lower Explosive Limit (%)		0	0	_	0	0		0		0	0
Manometer Pressure (inches H ₂ O)		0	-0.4		-0.2	-2		0		0	0
PID (ppm)		0	0		0	0		0		0	0
Barometric Pressure (in. Hg)	29.28	29	28.64	29.28	29	28.64	29.28	28.64	29.31	29.27	29.15
Balance (%)		79.8	82.1		96	89.3		80.9		79.4	82.2
Ambient Air Temperature (⁰F)			35			35		32			17

29.15

90.6

17

Table 4
Summary of Soil Gas Field Screening Values - 2009

South Dayton Dump and Landfill Site Moraine, Ohio

Sample Location: Sample Date:	9/18/2009	GP13-09 10/14/2009	12/10/2009	9/18/2009	GP14-09 10/14/2009	12/10/2009	9/18/2009	GP15-09 10/14/2009	12/10/2009	9/18/2009	GP16-09 10/14/2009	12/10/2009
Parameter												
Methane (%)	3.4	3.3	3.7	0	0	0	4.8	2	0	3.7	3.7	4.3
Carbon Dioxide (%)	10.5	10.1	9	9.1	7.2	4.1	8.8	8.5	7.7	5.3	5.3	5.1
Oxygen (%)		0.4	0.2		8.6	15.2		0.6	3.3		1	0
Lower Explosive Limit (%)		65	73		0	0		39	0		75	85
Manometer Pressure (inches H ₂ O)		0	0		-1	0		-1.4	0		-1.3	0
PID (ppm)		0	0		0	0		0	1.3		0	1.2

29.15

80.7

17

29.28

--

29.27

89

29.15

89

17

29.28

--

29.27

90.1

29.27

84.3

Barometric Pressure (in. Hg)

Ambient Air Temperature (°F)

Balance (%)

29.28

29.27

86.3

29.15

87.1

17

29.28

--

Table 4

Summary of Soil Gas Field Screening Values - 2009

South Dayton Dump and Landfill Site

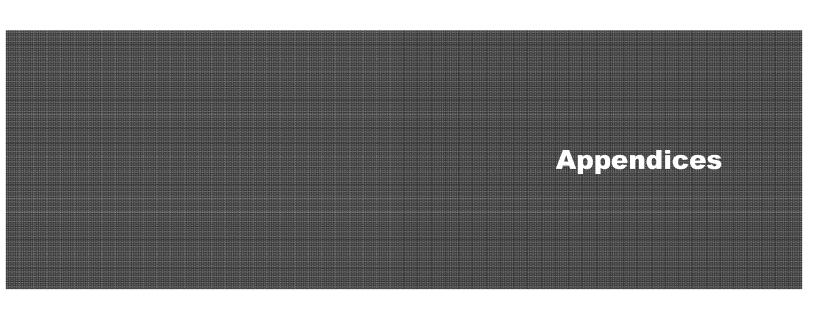
Moraine, Ohio

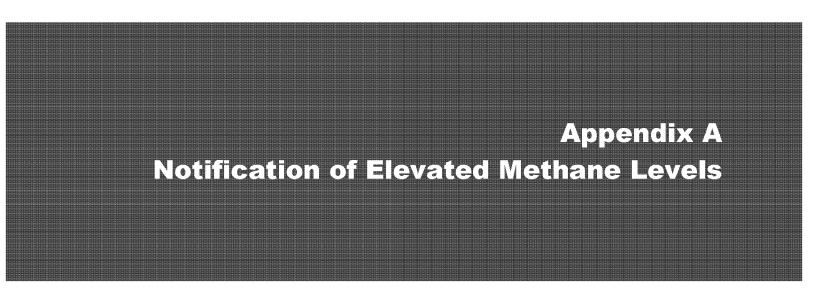
Sample Location:		GP17-09			GP18-09			GP19-09	
Sample Date:	9/18/2009	10/14/2009	12/10/2009	9/18/2009	10/14/2009	12/10/2009	9/18/2009	10/14/2009	12/10/2009
Parameter									
Methane (%)	1.3	1.7	0.1	26.6	23.1	20.6	0.4	0.2	0.5
Carbon Dioxide (%)	11.9	9.4	5.4	5.1	5.2	4.5	12.2	13.5	11.7
Oxygen (%)		0	9.8		0	0		1	2
Lower Explosive Limit (%)		34	1		> 100	> 100		5	10
Manometer Pressure (inches H ₂ O)		0.2	0		0	0		0.2	0
PID (ppm)		0	56		0	0.7		0	3.2
Barometric Pressure (in. Hg)	29.28	29.3	29.19	29.28	29.3	29.19	29.28	29.27	29.19
Balance (%)		88.8	84.7		71.6	74.9		85.1	85.8
Ambient Air Temperature (°F)			19			19			21

Table 4

Summary of Soil Gas Field Screening Values - 2009
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:	1	GP20-09		GP21-09					
Sample Date:	9/18/2009	10/14/2009	12/10/2009	9/18/2009	10/14/2009	12/9/2009			
Parameter									
Methane (%)	0	0	0	7.1	7.8	2.6			
Carbon Dioxide (%)	16.9	14.1	11.9	1.6	1.2	0.3			
Oxygen (%)		3.1	5		0.6	14.1			
Lower Explosive Limit (%)		0	0		> 100	51			
Manometer Pressure (inches H ₂ O)		0	0		0	0			
PID (ppm)		0	1.1		0	0			
Barometric Pressure (in. Hg)	29.28	29.27	29.19	29.28	29.27	28.64			
Balance (%)		82.8	83.1		90	83			
Ambient Air Temperature (°F)			21			32			





From: Hayward, Julian

Sent: Friday, September 09, 2016 10:42 AM **To:** Scott Arentsen; Edward N Rizer

Cc: 'Patterson.Leslie@epamail.epa.gov'; 'Steven Renninger';

Madelyn.Adams@epa.ohio.gov; Chan, Valerie

Subject: RE: Notification of elevated methane levels adjacent to Dayton Power and Light,

Dryden Road, Moraine, Ohio ~COR-038443-201~

Attachments: 038443Arentsen-Rizer-1-Notification of Elevated Methane Levels.pdf; lab detection

summary.pdf

Mr. Arentsen and Mr. Rizer

Further to the notification provided by the attached letter we are providing the analytical results of samples collected from the GP-2 nested probes. The samples were collected at the request of USEPA on August 19, 2016 and analyzed for TO-15 VOCs and methane. See attached detection summary from the lab report which confirms the presence of methane and various VOCs associated with petroleum substances.

Please be advised that the ongoing weekly monitoring at GP-2 continues to show gas readings above the lower explosive limit for methane using field instruments and hence the potential explosion hazard remains, due to the apparent mixture of methane and other VOCs. Also the monitoring results from other nearby probes continues to indicate the potential for a local source in the vicinity of GP-2.

Please let us know if you have any questions.

Julian Hayward

GHD

T: +1 519 884 0510 | M: +1 519 503 3627 | E: julian.hayward@ghd.com

From: Chan, Valerie

Sent: Tuesday, August 16, 2016 8:43 AM **To:** Scott Arentsen; Edward N Rizer

Cc: 'Patterson.Leslie@epamail.epa.gov'; 'Steven Renninger'; Madelyn.Adams@epa.ohio.gov; Hayward, Julian; Project

Email Filing

Subject: Notification of elevated methane levels adjacent to Dayton Power and Light, Dryden Road, Moraine, Ohio

~COR-038443-201~

Hello Mr. Arentsen and Mr. Rizer

Please find attached a letter providing notification of elevated methane levels adjacent to the Dayton Power and Light Company property located at 1900 Dryden Road in Moraine, Ohio.

Should you have any questions or comments, feel free to contact us.

Thank you, Valerie

Valerie Chan, P.Eng.

GHD

T: 1 519 884 0510 | F: 1 519 884 0525 | E: <u>valerie.chan@qhd.com</u> 651 Colby Drive Waterloo Ontario N2V 1C2 Canada | <u>www.qhd.com</u>

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Please consider our environment before printing this email

From: Hayward, Julian

Sent: Tuesday, September 20, 2016 3:55 PM **To:** Nancy Clark; Jacob Elder; Edward N Rizer

Cc: Patterson, Leslie (patterson.leslie@epa.gov); 'Steven Renninger';

Madelyn.Adams@epa.ohio.gov; Chan, Valerie

Subject: Notification of elevated methane levels adjacent to Dayton Power and Light, Dryden

Road, Moraine, Ohio ~COR-038443-201~

Attachments: Summary of GP-2 results (20-sept-2016).pdf

Ms. Clark and Mr. Elder,

Further to the notification provided by our letter dated August 16 and the additional laboratory results provided on September 9, please see attached updated table with results of the weekly monitoring at the gas probe location on the east side of Dryden Road, adjacent to the DP&L facility (GP-2).

As shown on the table, GP-2 methane readings remain elevated, i.e., above the lower explosive limit (LEL), as of September 14, 2016.

Please let me know if you have any questions.

Julian Hayward, P.Eng.

GHD

T: +1 519 884 0510 | M: +1 519 503 3627 | E: <u>julian.hayward@ghd.com</u> 651 Colby Drive Waterloo Ontario N2V 1C2 Canada | www.ghd.com

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Please consider our environment before printing this email

From: Hayward, Julian

Sent: Friday, September 30, 2016 12:51 PM **To:** Nancy Clark; Jacob Elder; Edward N Rizer

Cc: Patterson, Leslie (patterson.leslie@epa.gov); 'Steven Renninger';

Madelyn.Adams@epa.ohio.gov; Chan, Valerie

Subject: RE: Notification of elevated methane levels adjacent to Dayton Power and Light,

Dryden Road, Moraine, Ohio ~COR-038443-201~

Attachments: Summary of GP-2 results (30-sept-2016).pdf

Ms. Clark and Mr. Elder,

See attached updated table with monitoring results. As shown on the table, GP-2 methane readings remain elevated, i.e., above the lower explosive limit (LEL), as of September 28, 2016.

Please let me know if you have any questions.

Julian Hayward GHD

T: +1 519 884 0510 | M: +1 519 503 3627 | E: julian.hayward@ghd.com

From: Hayward, Julian

Sent: Tuesday, September 20, 2016 3:55 PM **To:** Nancy Clark; Jacob Elder; 'Edward N Rizer'

Cc: Patterson, Leslie (<u>patterson.leslie@epa.gov</u>); 'Steven Renninger'; <u>Madelyn.Adams@epa.ohio.gov</u>; Chan, Valerie **Subject:** Notification of elevated methane levels adjacent to Dayton Power and Light, Dryden Road, Moraine, Ohio ~COR-038443-201~

Ms. Clark and Mr. Elder,

Further to the notification provided by our letter dated August 16 and the additional laboratory results provided on September 9, please see attached updated table with results of the weekly monitoring at the gas probe location on the east side of Dryden Road, adjacent to the DP&L facility (GP-2).

As shown on the table, GP-2 methane readings remain elevated, i.e., above the lower explosive limit (LEL), as of September 14, 2016.

Please let me know if you have any questions.

Julian Hayward, P.Eng.

GHD

T: +1 519 884 0510 | M: +1 519 503 3627 | E: <u>julian.hayward@ghd.com</u> 651 Colby Drive Waterloo Ontario N2V 1C2 Canada | www.ghd.com

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Please consider our environment before printing this email

From: Hayward, Julian

Sent: Friday, October 14, 2016 8:39 AM **To:** Nancy Clark; Jacob Elder; Edward N Rizer

Cc: Patterson, Leslie (patterson.leslie@epa.gov); 'Steven Renninger';

Madelyn.Adams@epa.ohio.gov; Chan, Valerie

Subject: RE: Notification of elevated methane levels adjacent to Dayton Power and Light,

Dryden Road, Moraine, Ohio ~COR-038443-201~

Attachments: Summary of GP-2 results (14-oct-16).pdf

Ms. Clark and Mr. Elder,

See attached updated table with monitoring results. As shown on the table, GP-2 methane readings remain elevated, i.e., above the lower explosive limit (LEL), as of October 12, 2016.

Please let me know if you have any questions.

Julian Hayward

GHD

T: +1 519 884 0510 | M: +1 519 503 3627 | E: julian.hayward@ghd.com

From: Hayward, Julian

Sent: Friday, September 30, 2016 12:51 PM **To:** 'Nancy Clark'; 'Jacob Elder'; 'Edward N Rizer'

Cc: Patterson, Leslie (<u>patterson.leslie@epa.gov</u>); 'Steven Renninger'; 'Madelyn.Adams@epa.ohio.gov'; Chan, Valerie **Subject:** RE: Notification of elevated methane levels adjacent to Dayton Power and Light, Dryden Road, Moraine,

Ohio ~COR-038443-201~

Ms. Clark and Mr. Elder,

See attached updated table with monitoring results. As shown on the table, GP-2 methane readings remain elevated, i.e., above the lower explosive limit (LEL), as of September 28, 2016.

Please let me know if you have any questions.

Julian Hayward

GHD

T: +1 519 884 0510 | M: +1 519 503 3627 | E: julian.hayward@ghd.com

From: Hayward, Julian

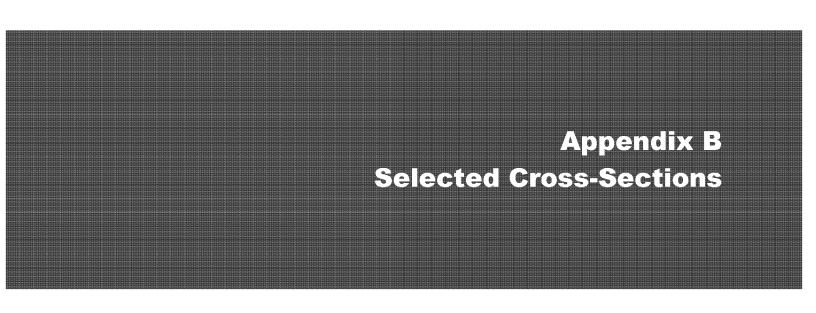
Sent: Tuesday, September 20, 2016 3:55 PM **To:** Nancy Clark; Jacob Elder; 'Edward N Rizer'

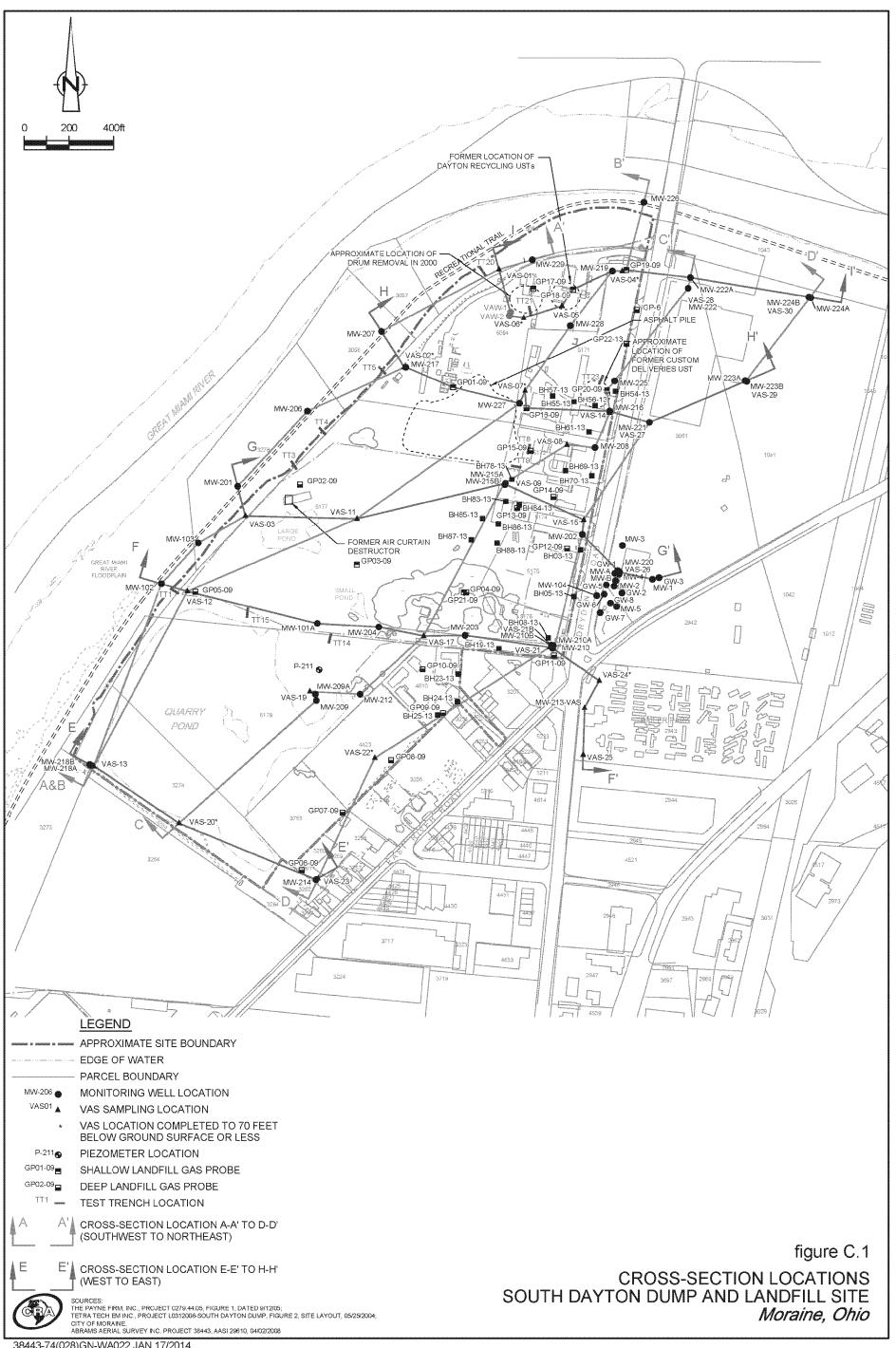
Cc: Patterson, Leslie (<u>patterson.leslie@epa.gov</u>); 'Steven Renninger'; <u>Madelyn.Adams@epa.ohio.gov</u>; Chan, Valerie **Subject:** Notification of elevated methane levels adjacent to Dayton Power and Light, Dryden Road, Moraine, Ohio ~COR-038443-201~

Ms. Clark and Mr. Elder,

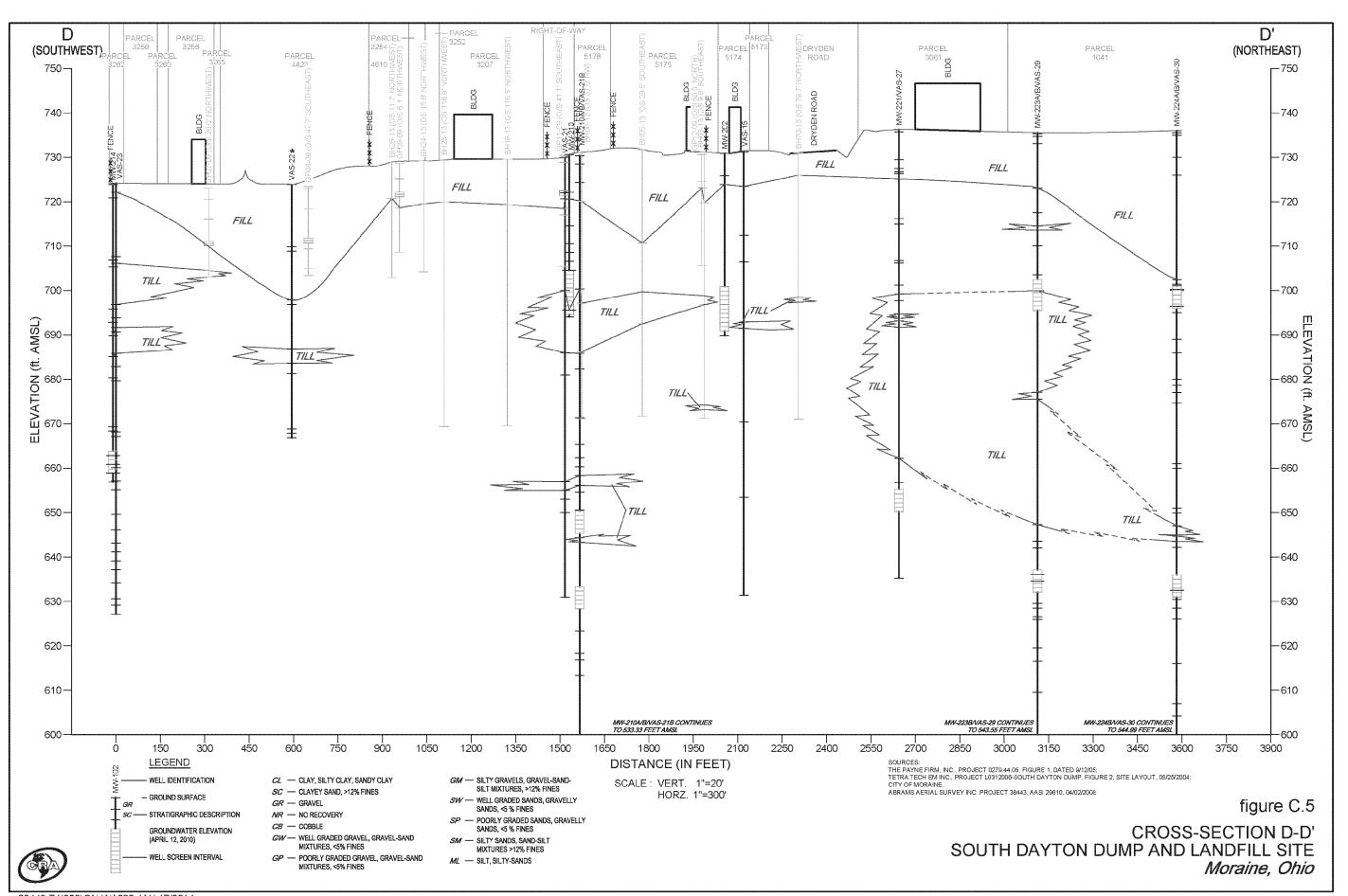
Further to the notification provided by our letter dated August 16 and the additional laboratory results provided on September 9, please see attached updated table with results of the weekly monitoring at the gas probe location on the east side of Dryden Road, adjacent to the DP&L facility (GP-2).

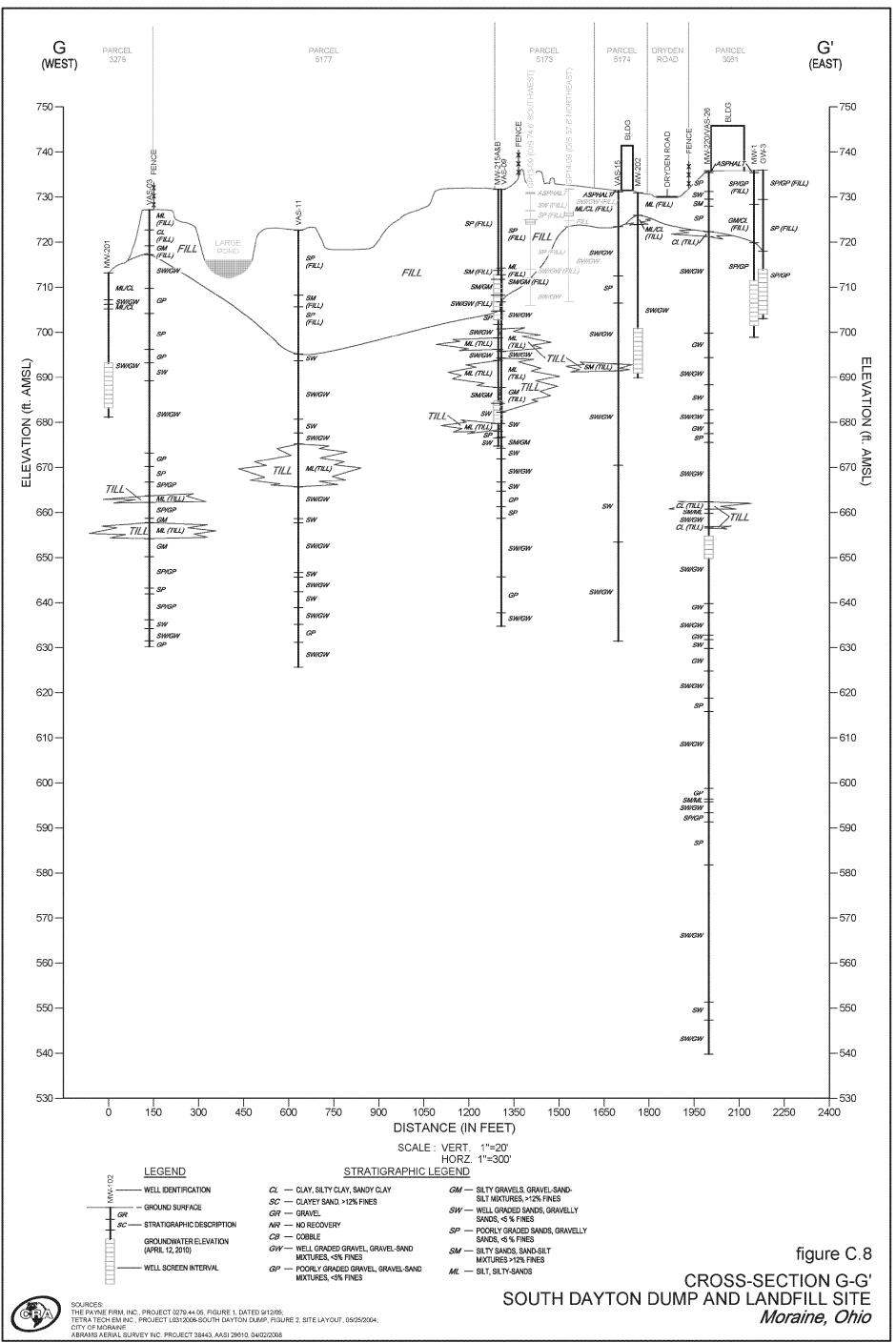
As shown on the table, GP-2 methane readings remain elevated, i.e., above the lower explosive limit (LEL), as of September 14, 2016.

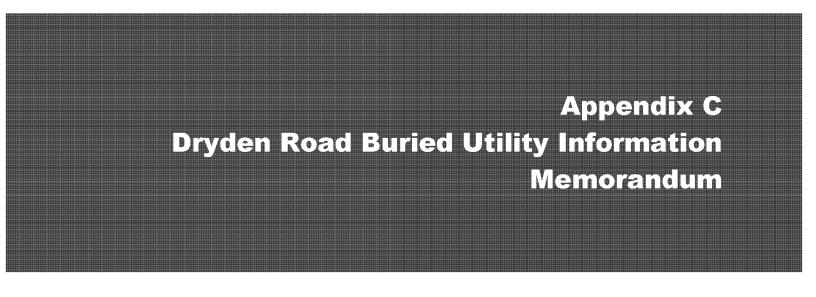




38443-74(028)GN-WA022 JAN 17/2014









Memorandum

September 21, 2016

To: Steve Renninger & Leslie Patterson, USEPA; Ref. No.: 038443-201

Madelyn Adams, Ohio EPA

M

From: Julian Hayward/Valerie Chan/cb/37

cc: Ken Brown, ITW; Jim Campbell, EMI, Wendell Barner;

Barner Consulting; Bryan Heath, NCR

Subject: Dryden Road Buried Utility Information

United States Environmental Protection Agency (USEPA), GHD, and the Respondents to the Administrative Settlement Agreement Order on Consent for Removal Action Docket No. V-W-13-C-010 (Respondents) participated in conference calls regarding the elevated levels of methane detected seasonally from soil gas probe GP-2. GP-2 is located on the east side of Dryden Road in Moraine, Ohio, adjacent to the Dayton Power and Light property at 1900 Dryden Road, as shown on Figure 1.

GHD notes that the soil gas monitoring at probes in the vicinity of GP-2 on the west side of Dryden Road shows the general absence of methane. The gas present at GP-2 has been confirmed to be a mixture of methane and petroleum-related substances. On this basis a local source in the area of GP-2 appears to be causing the elevated readings at GP-2. Information regarding buried utilities has been collected to examine the possibility of preferential gas migration pathways as outlined in this memo.

Based on the conference call discussions, GHD completed the following:

- Provided notification of the potential explosive hazard to Dayton Power and Light (DP&L) and the City of Moraine, on August 16, 2016.
- Contacted the City of Moraine to request information regarding buried utilities, and was directed to Ohio Utilities Protection Services (OUPS), on August 24, 2016.
- Contacted OUPS on August 24, 2016. OUPS issued Ticket A623702683-00A on the same date.
- Completed sampling from and third-party laboratory analysis of GP-2 soil gas for TO-15 and methane,
 the results of which were provided to DP&L and City of Moraine on September 9, 2016.

OUPS member Montgomery County provided copies of various drawings (Attachment 1) with information on the following utility types, sanitary sewer, water mains, and natural gas lines. Underground utility information from remaining OUPS members (AT&T, Cincinnati Bell, Centurylink, Level 3 Communication, etc.) is presented in Attachment 2. The information from OUPS did not provide specific details for storm sewers. GHD contacted Miami Conservancy District, Montgomery County, and the City of Moraine to request said information but none was available. GHD made observations of storm drains and other features during a site visit on September 14, 2016 in conjunction with weekly soil gas monitoring.





Based on the OUPS documents, GHD and Respondents understand the locations of buried utilities are as follows:

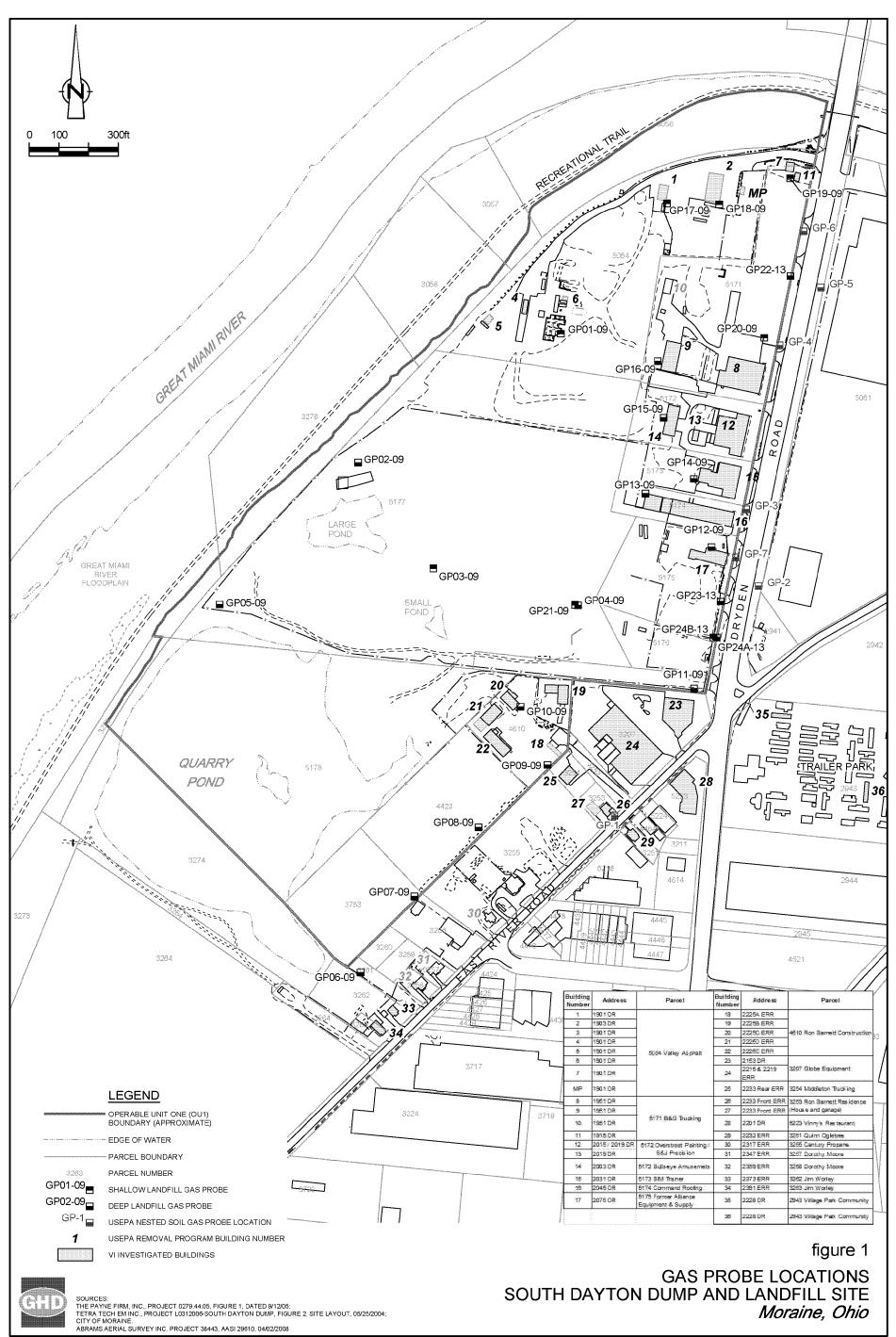
- On the west side of Dryden Road (i.e., adjacent to the South Dayton Dump and Landfill Site [Site]),
 buried utilities include an 8" or 10" water main, 4" gas line, and 10" sanitary sewer.
- An underground duct (Ohio Bell Telephone) is located slightly west of the centerline of Dryden Road (also known as Springboro Pike).
- There is one buried utility shown on the drawings which crosses over Dryden Road, which is a 6" Gas line that is located slightly south of the south end bridge (i.e., from the Valley Asphalt property) which connects to a 12" gas line on the DP&L property.
- With the exception of Cincinnati Bell, no underground utilities are shown on the east side of Dryden
 Road, adjacent to the DP&L property, north from East River Road until the 12" gas line described above.

As noted above, the drawings provided by OUPS do not provide storm sewer details. Some of the drawings make limited references to storm sewer piping. GHD conducted an inspection on September 14, 2016, and noted the presence of storm inlets and other features - see Figure 2. The manhole shown in the area of GP-2 is believed to be associated with Cincinnati Bell.

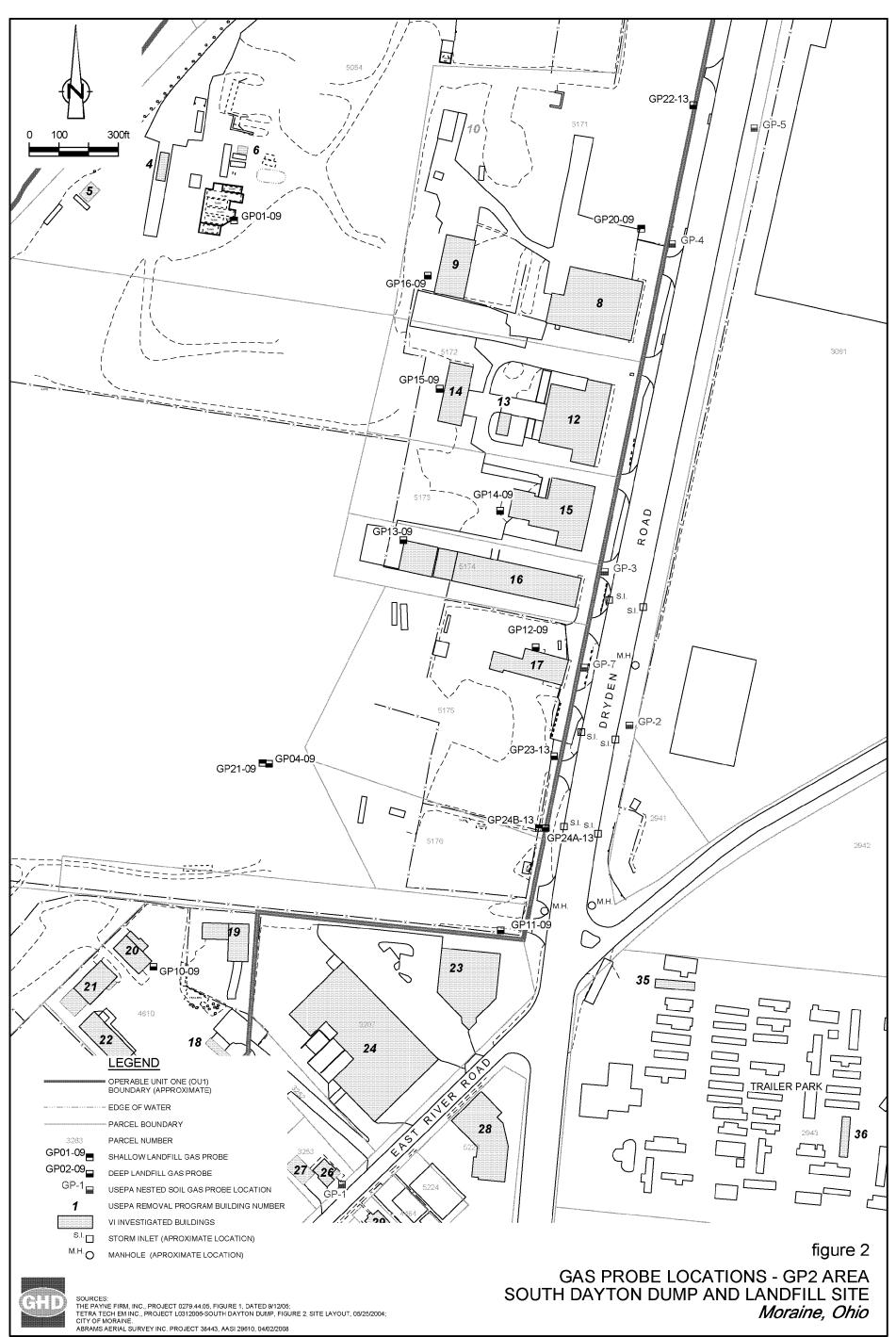
Soil stratigraphy in the area along the west side of Dryden Road is provided by borehole information logged by GHD (formerly Conestoga-Rovers & Associates, CRA). Borehole locations and stratigraphy logs are presented in Attachment 3. Stratigraphy logs for the soil gas probes (GP-1 to GP-7) installed along Dryden Road by USEPA contractor Weston / Dynamac are not available. GP-2 is screened at two depths, 12 and 16 feet below ground surface (ft bgs). In Site area soil gas probes, that interval is characterized by permeable, loose, medium to coarse sand and/or gravel.

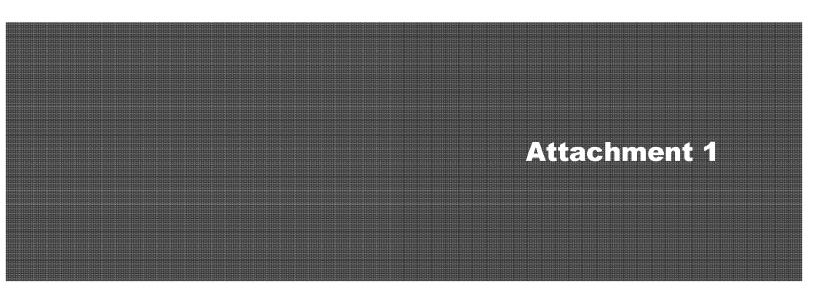
The buried utility information for Dryden Road, spanning north from East River Road to Nicolas Road in Moraine Ohio, is presented in the following attachments. The locations of the buried utilities have been summarized above. Based on available information the apparent storm sewer inlets along Dryden Road require further assessment to determine possible interconnection. Otherwise the available information does not indicate the presence of buried utilities crossing Dryden Road that would represent plausible gas migration pathways. Should you have any questions or comments, feel free to contact us.

038443Memo-37 2

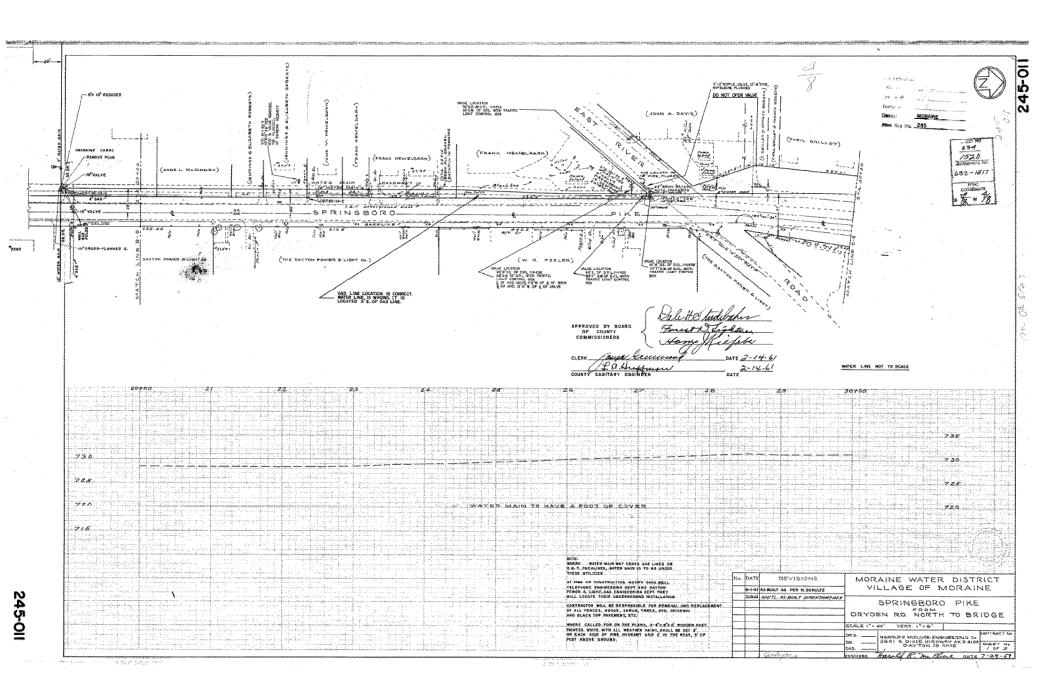


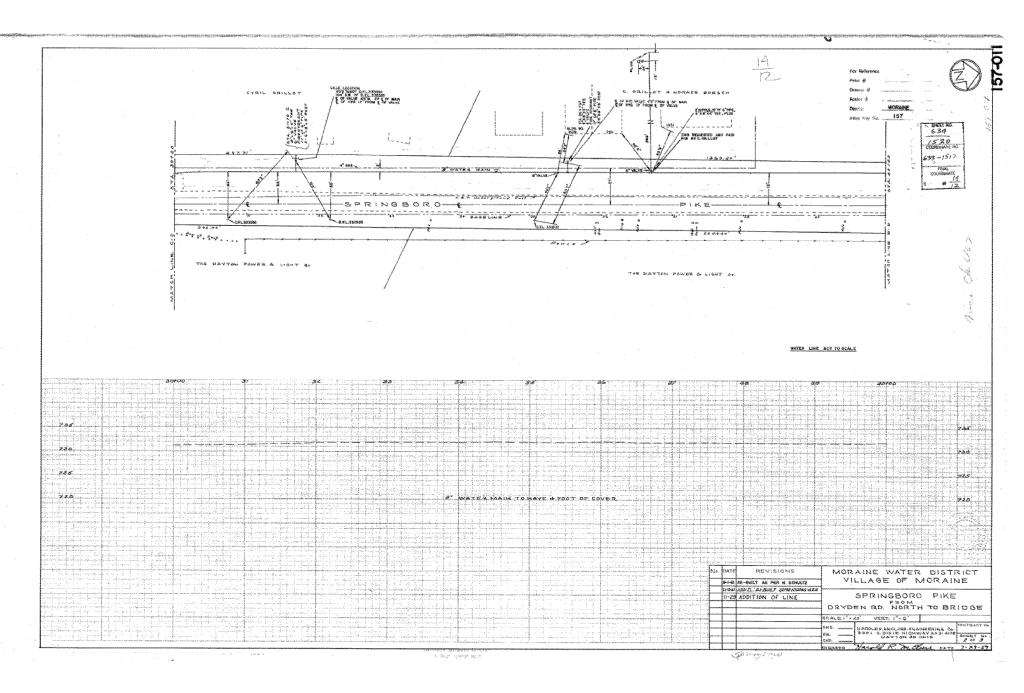
38443-202(MEMO037)GN-WA001 SEP 16, 2016

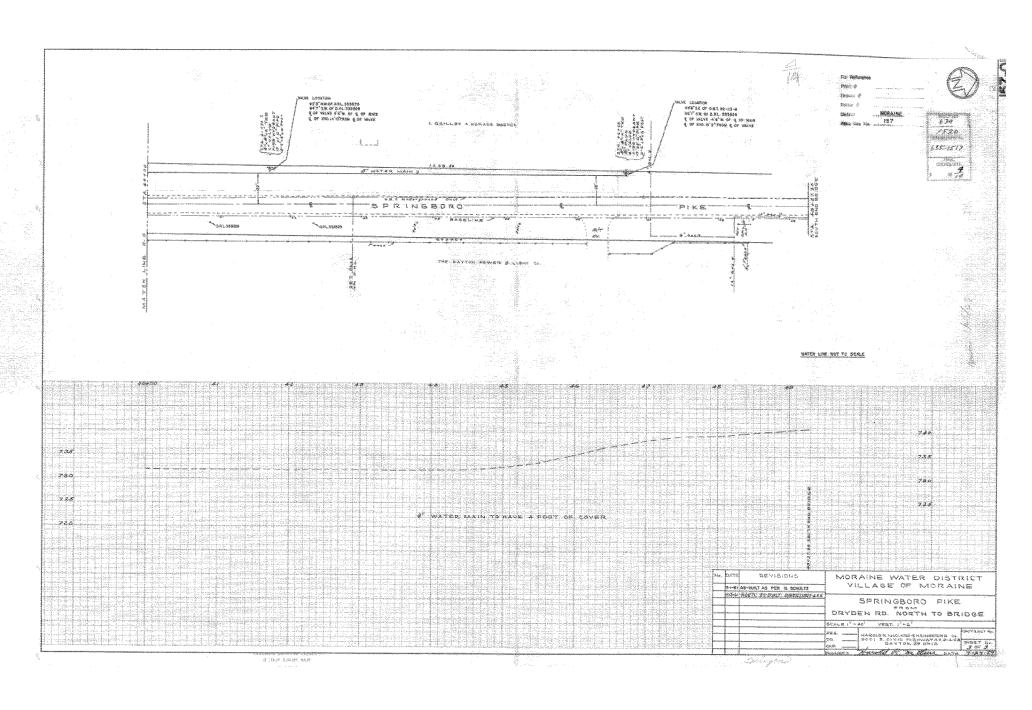


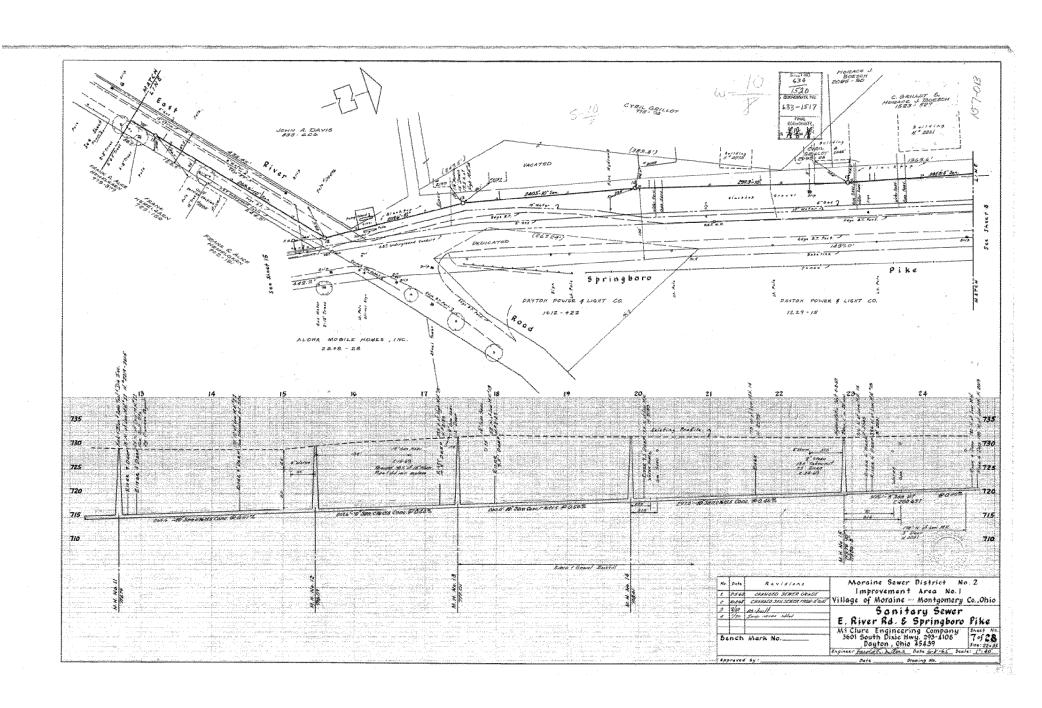


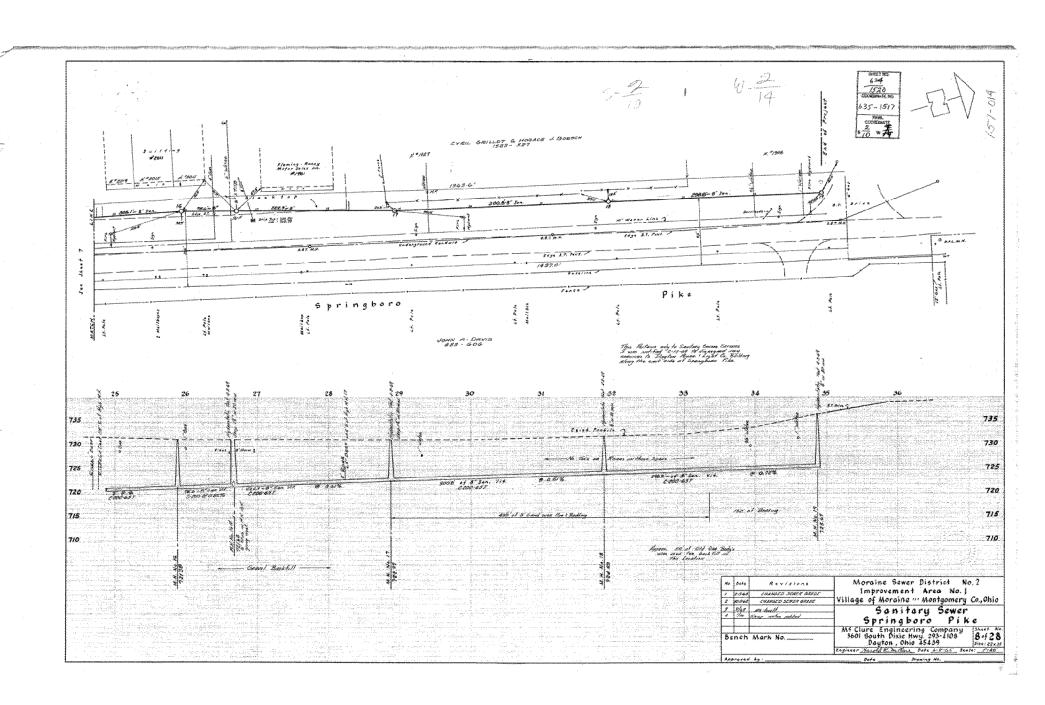
GHD | 038443Memo-37-AttTPs

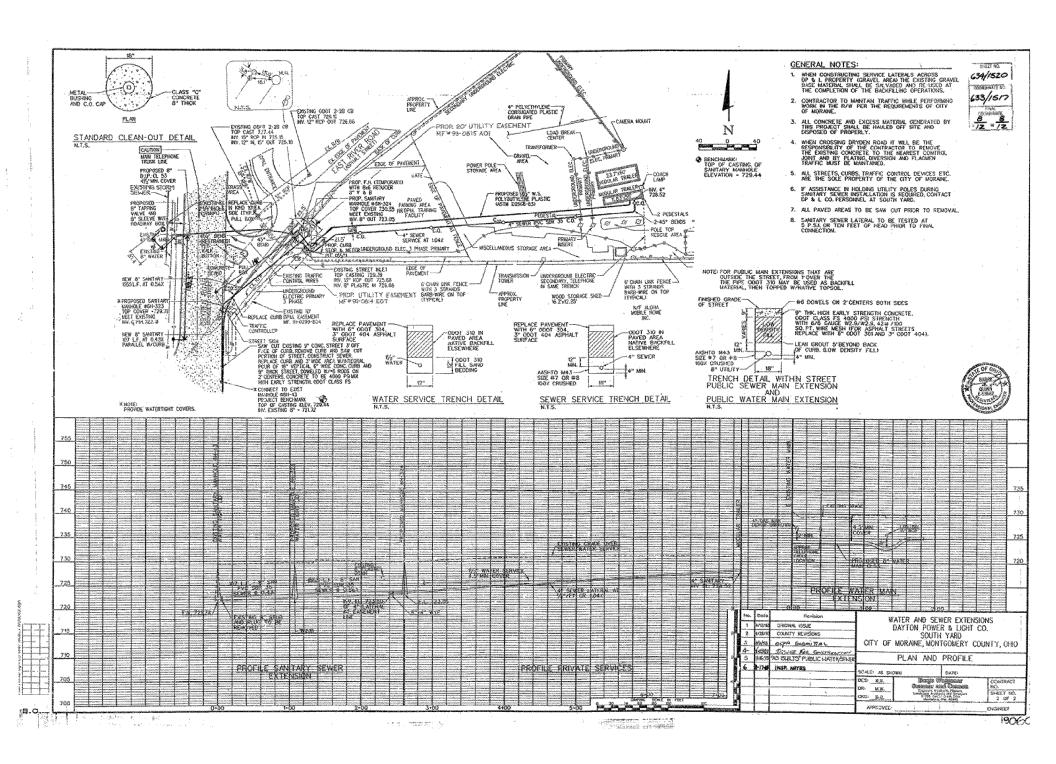


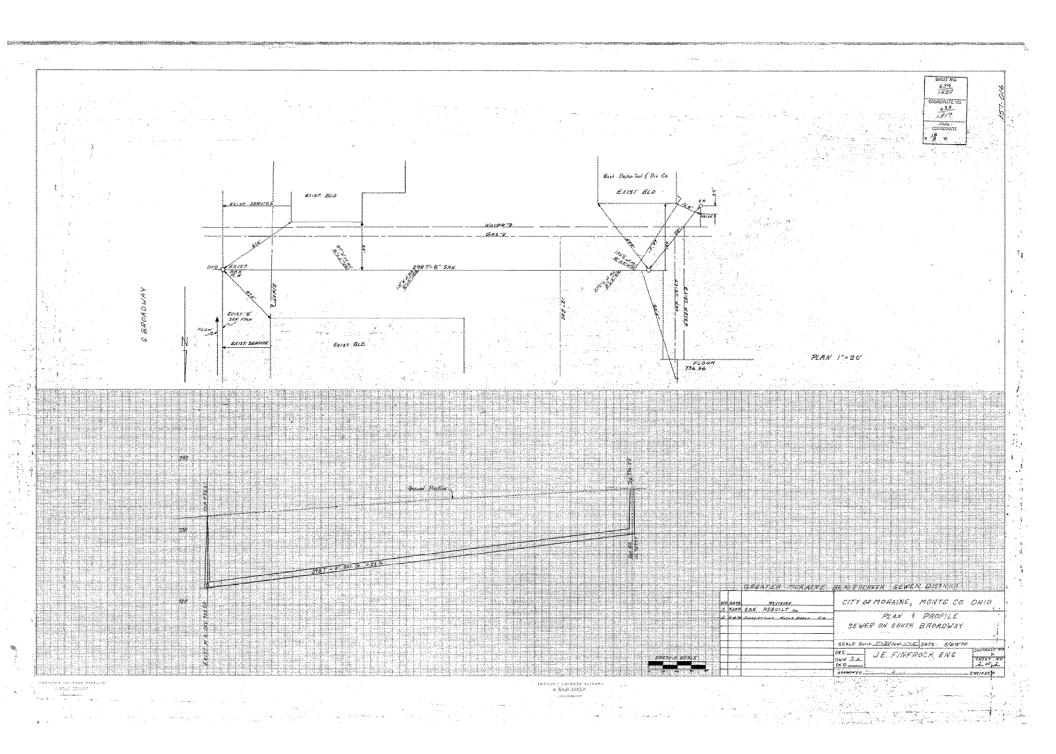


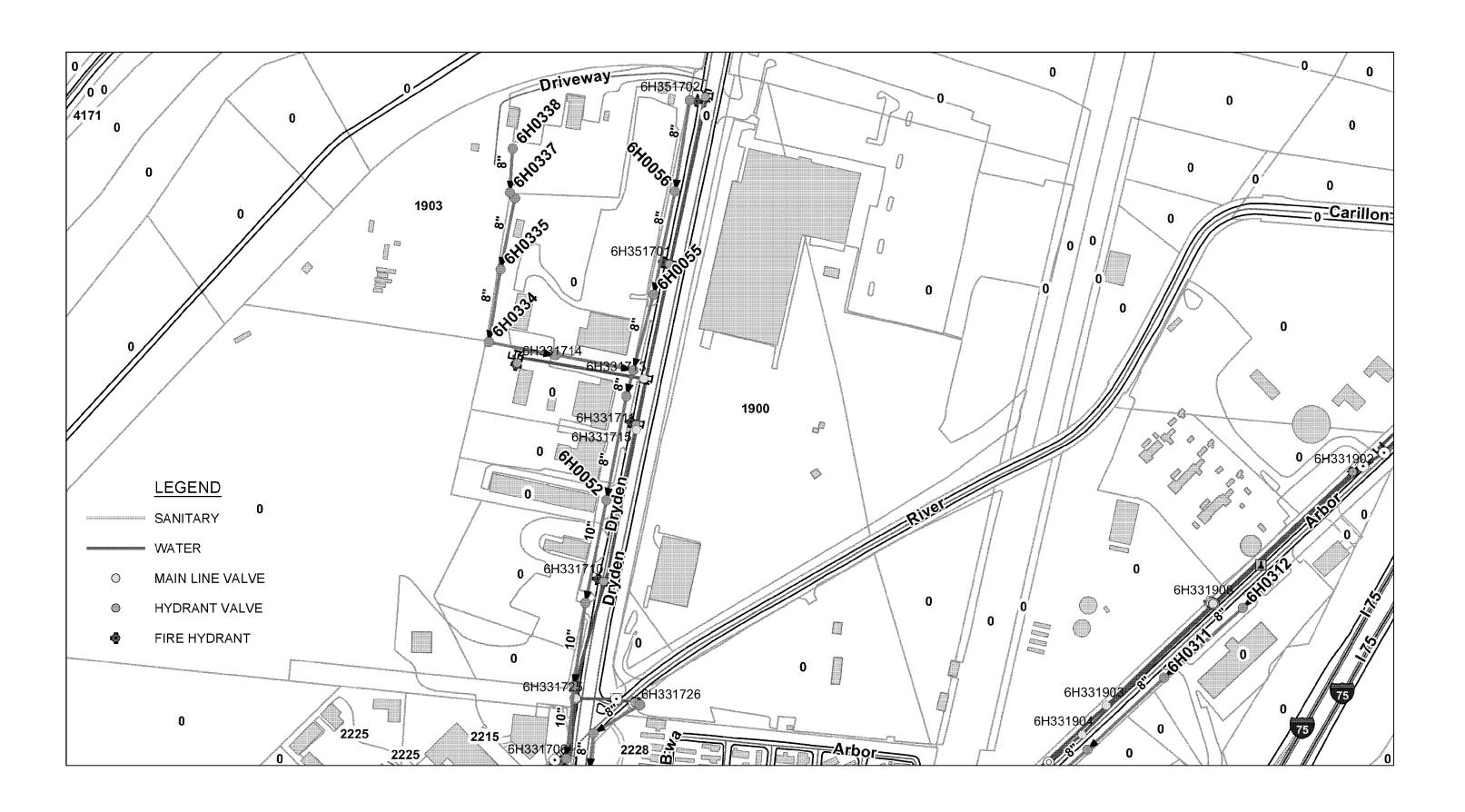


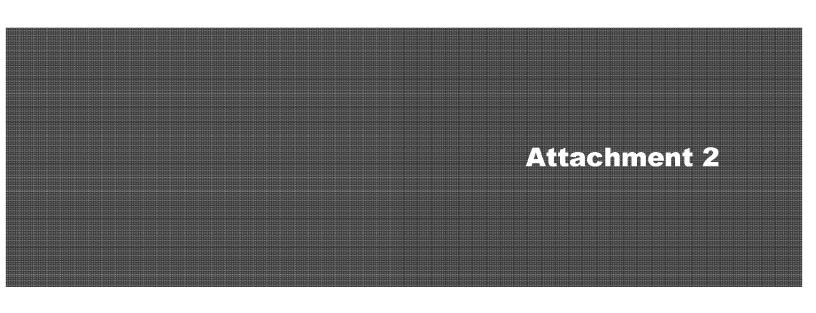












GHD | 038443Memo-37-AttTPs

From: Cox, David < David.Cox@cinbell.com>
Sent: Thursday, August 25, 2016 12:55 PM

To:Chan, ValerieSubject:OUPS responseAttachments:000001_2(crop).pdf

OUPS # A623702683

Subject Area: 1900 Dryden rd

Status: CBT has underground utilities in requested area, reference attachment

David Cox

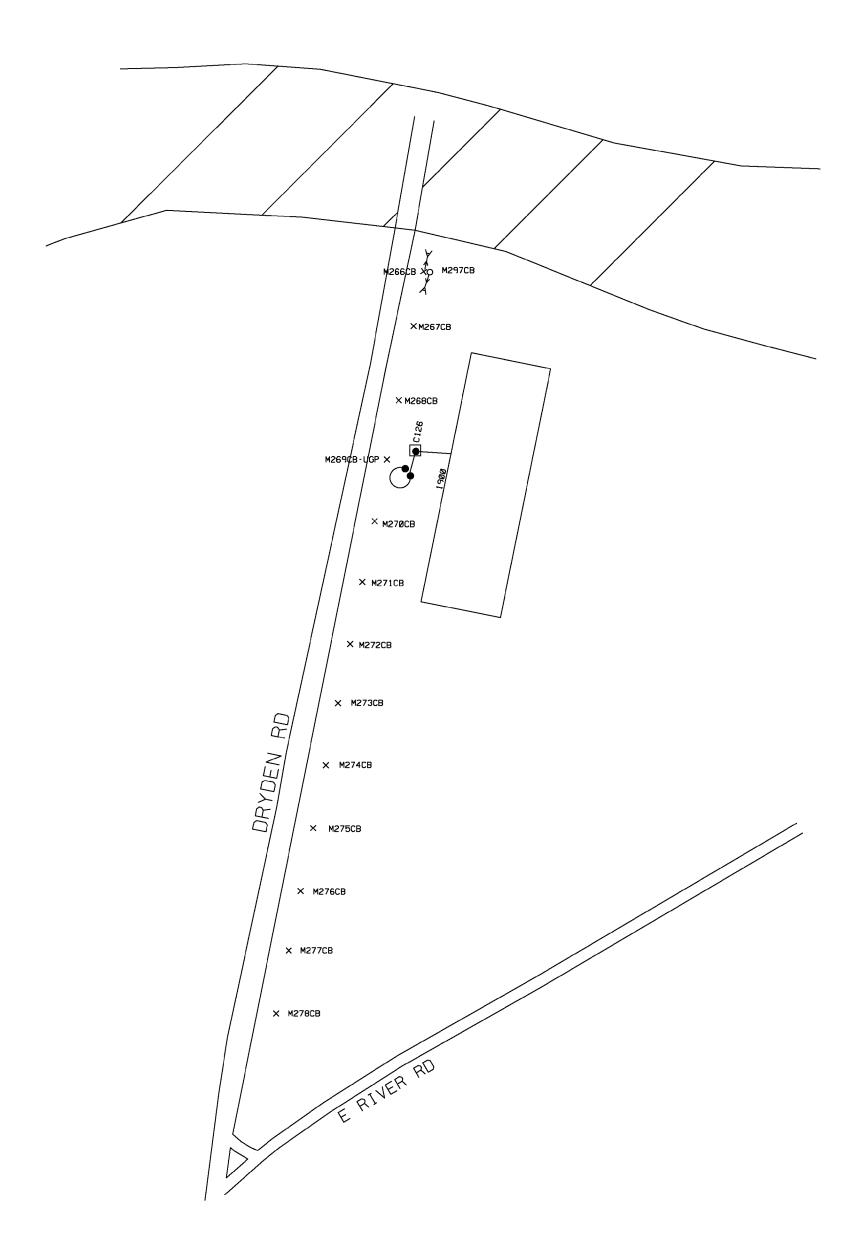
Conduit Group Clerk, Cincinnati Bell

Phone: 513-565-0062 Cell: 513-502-8702

Email: david.cox@cinbell.com

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From: alcs@zlp13991.vci.att.com

Sent: Wednesday, August 24, 2016 1:29 PM

To: Chan, Valerie

Subject: HIGH PRIORITY FACILITY FOUND



AT&T DAMAGE PREVENTION

FIBER OPTIC UTILITY LOCATE NOTIFICATION

Ticket #: {A623702683}

Ticket Address: {1900 DRYDEN RD} {MORAINE}

Caller Name & Phone: {VALERIE CHAN} {519-884-0510 Ext: 2296}

Contractor Name & Phone: {GHD} {}

THIS LOCATE REQUEST IS NEAR AN AT&T HIGH PROFILE FIBER OPTIC FACILITY;
BEFORE DIGGING IN THIS AREA WAIT ON THE LOCATES TO BE PERFORMED;
TAKE CARE TO OBSERVE SITE MARKINGS SUCH AS PAINT AND FLAGS;
HAND DIGGING IS MANDATORY WITHIN THE STATUTORY TOLERANCE ZONE,
DAMAGE PREVENTION IS EVERYONES RESPONSIBILITY.
THANK YOU.

Contact Information

Positive Response : Excavator may use this link to check for positive response. http://www.oups.org/positive-response

AT&T Distribution Damage Prevention: If assistance is needed during an excavation involving AT&T facilities or locate issues.

Briant Thomas, 231-409-7939

One Call Center: Any questions pertaining to a dig ticket should be directed to the state One Call (for example: location requested, utilities in the area or notification processes).

Ohio Utility Protection Services, 800-362-2764

AT&T Distribution Locate Vendor: If assistance is needed with interpretation of markings or locate issues contact the locate company for area.

USIC Dispatch Center, 800-762-0592

Damage Reporting to AT&T Distribution: 888-611-4466 prompt #8

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From: Sent: To: Subject:	agt_comm@irth.com Thursday, August 25, 2016 11:12 PM Chan, Valerie Ticket A623702683 - Response to Dig Request
======================================	tn: VALERIE CHAN
Voice: 5198840510 x2296	Fax:
Re: Response to Dig Request	
Hello, this is an important mes	ssage from Sprint Nextel regarding your request
to locate our underground fac	ilities in an area described on the one call
center ticket.	
=======================================	
Ticket: A623702683	
County: MONTGOMERY	Place: MORAINE
Address: 1900 DRYDEN RD	
SPTP:	
. Sprint Nextel facilities are c	lear from the work area described on this
One-Call Center ticket. If you	ı have any questions or concerns, please call
Sprint Nextel Call Before You	ı Dig at 1-800-521-0579.
============	
If you have any questions plea	ise contact Sprint at 800-521-0579 that number
again is Sprint at 800-521-057	

1

This message was generated by an automated system. Please do not reply to this
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IRTH.Net@CenturyLink.com From: Sent: Friday, September 02, 2016 8:14 AM To: Chan, Valerie Subject: Centurylink Locate Notification Attn: VALERIE CHAN To: GHD Voice: 5198840510 x2296 Fax: Re: Centurylink Locate Notification Message from CenturyLink This is an important message from CenturyLink replying to your request to locate our underground facilities in an area described on the one call center ticket. If you have any questions please call CenturyLink at 1-800-283-4237 Ticket: A623702683 County: MONTGOMERY Place: MORAINE Address: 1900 DRYDEN RD QSTP: The described dig area of your locate request has been checked and is clear for CenturyLink National Network, but may be a risk to CenturyLink local. If you have any questions, please call CenturyLink at 1-800-283-4237. CenturyLink has closed this ticket. ______

1

Centurylink
This message was generated by an automated system. Please do not reply to this
email.
This e-mail has been scanned for viruses

From: Schaffer, Charles <SchafferC@mcohio.org>
Sent: Friday, September 09, 2016 5:57 PM

To: Hayward, Julian

Subject: RE: Dryden Road storm sewer

Attachments: DOC090916-09092016175430.pdf; DOC090916-09092016175201.pdf

Attached is a copy of the Water and sanitary sewer atlas in this area. I have also attached a copy of the as-built drawing for Arbor And Carrillon that does show some stm. Sewers. Unfortunately where you have requested we do not have our utilities.

From: Hayward, Julian [mailto:Julian.Hayward@ghd.com]

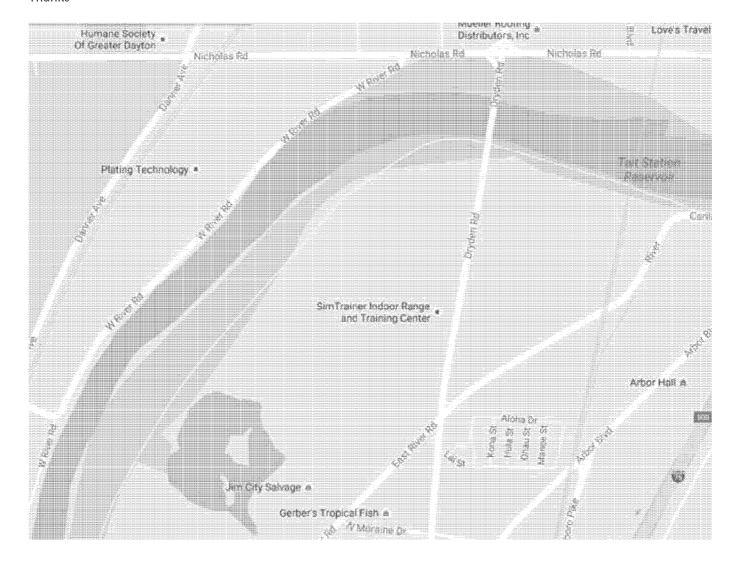
Sent: Friday, September 09, 2016 5:10 PM

To: Schaffer, Charles

Subject: RE: Dryden Road storm sewer

OK, it is the section of Dryden Road within the area depicted below, more specifically the part between the river to the north and East River Road to the south.

Thanks



Julian Hayward

GHD

T: +1 519 884 0510 | M: +1 519 503 3627 | E: julian.hayward@ghd.com

From: Schaffer, Charles [mailto:SchafferC@mcohio.org]

Sent: Friday, September 09, 2016 4:30 PM **To:** Hayward, Julian; schaffercharlie@mcohio.org

Subject: RE: Dryden Road storm sewer

Please provide a map as to the exact location you are looking at. I will see if anything shows up on our as-built drawings of our utilities.

From: Hayward, Julian [mailto:Julian.Hayward@ghd.com]

Sent: Friday, September 09, 2016 2:42 PM **To:** schaffercharlie@mcohio.org; Schaffer, Charles

Subject: Dryden Road storm sewer

Mr. Schaffer,

I was given your name by Tony Wenzler at City of Moraine, he indicated you may be able to assist with my inquiry.

I am working on an environmental investigation in the area of Dryden Road, specifically the section from East River Road extending northward toward the bridge that crosses the river.

The investigation requires some knowledge of buried infrastructure. I have some details from OUPS for sanitary sewer, water, gas etc. but they were not able to provide anything for the storm sewer system.

Would you be able to provide drawings showing the layout of the existing storm sewer system within the area noted above?

Thanks

Julian Hayward, P.Eng.

GHD

T: +1 519 884 0510 | M: +1 519 503 3627 | E: <u>julian.hayward@ghd.com</u> 651 Colby Drive Waterloo Ontario N2V 1C2 Canada | www.ghd.com

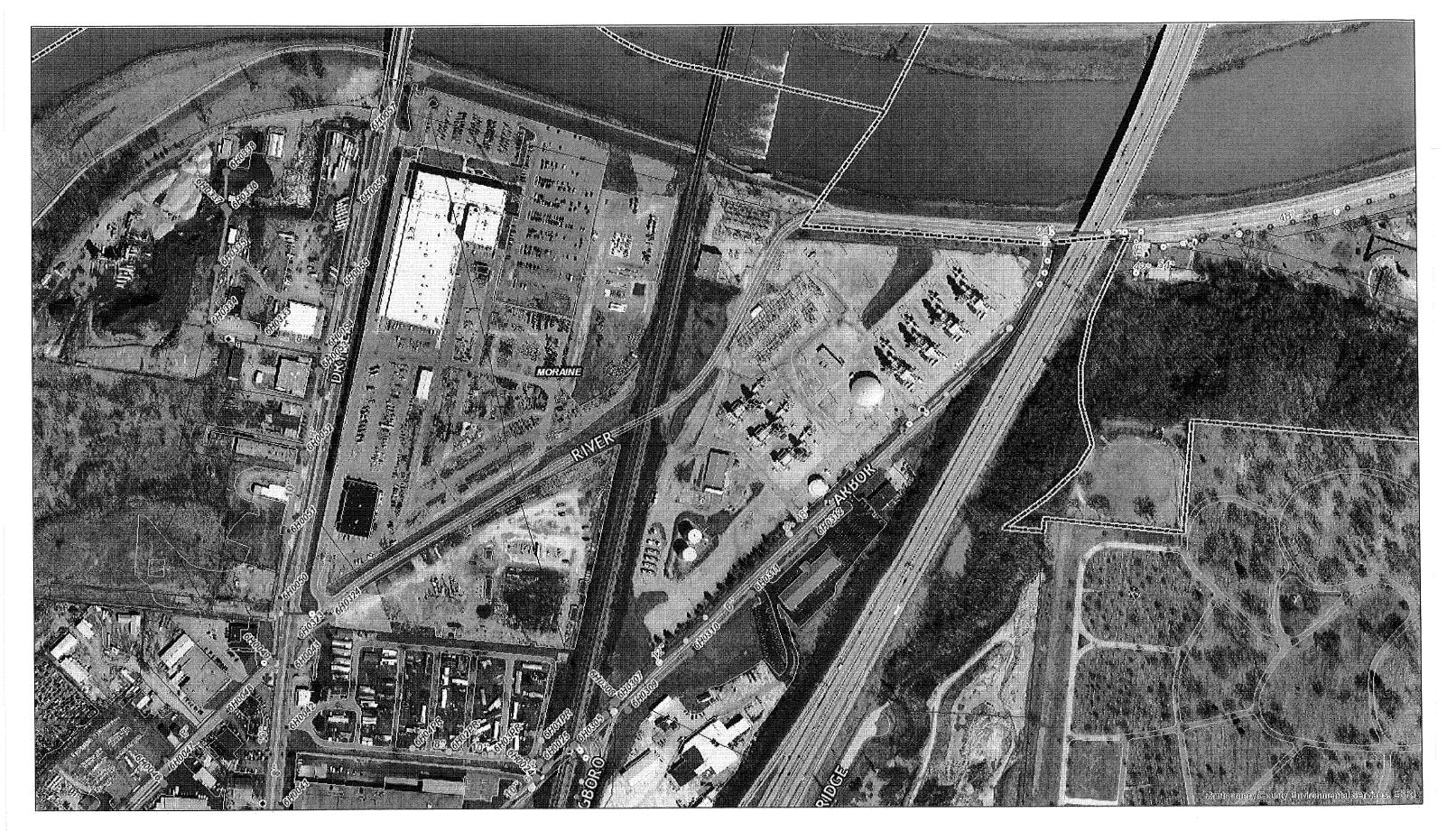
WATER | ENERGY & RESOURCES | ENVIRONMENT | PROPERTY & BUILDINGS | TRANSPORTATION

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From: Schaffer, Charles <SchafferC@mcohio.org> **Sent:** Monday, September 12, 2016 10:42 AM

To: Hayward, Julian

Subject: RE: Dryden Road storm sewer

Green is sanitary sewers, blue is water mains the Manhole numbers are next to the sanitary manhole circles. Red dots are fire hydrants yellow dots should be water valves. White dots are bends or fitting on the water main. The size of the water main or sanitary sewer main are labeled in blue or green accordingly. The white manholes in the trailer park are private manholes.

I hope this helps.

From: Hayward, Julian [mailto:Julian.Hayward@ghd.com]

Sent: Monday, September 12, 2016 9:27 AM

To: Schaffer, Charles

Subject: RE: Dryden Road storm sewer

Mr. Schaffer, could you provide a legend for the details shown on the arc gis web map (attached)?

I think green line is water main and blue line is sanitary sewer? Or other way around?

Also I can see some red and yellow dots.

Thanks again

Julian Hayward

GHD

T: +1 519 884 0510 | M: +1 519 503 3627 | E: julian.hayward@ghd.com

From: Schaffer, Charles [mailto:SchafferC@mcohio.org]

Sent: Friday, September 09, 2016 5:57 PM

To: Hayward, Julian

Subject: RE: Dryden Road storm sewer

Attached is a copy of the Water and sanitary sewer atlas in this area. I have also attached a copy of the as-built drawing for Arbor And Carrillon that does show some stm. Sewers. Unfortunately where you have requested we do not have our utilities.

From: Hayward, Julian [mailto:Julian.Hayward@ghd.com]

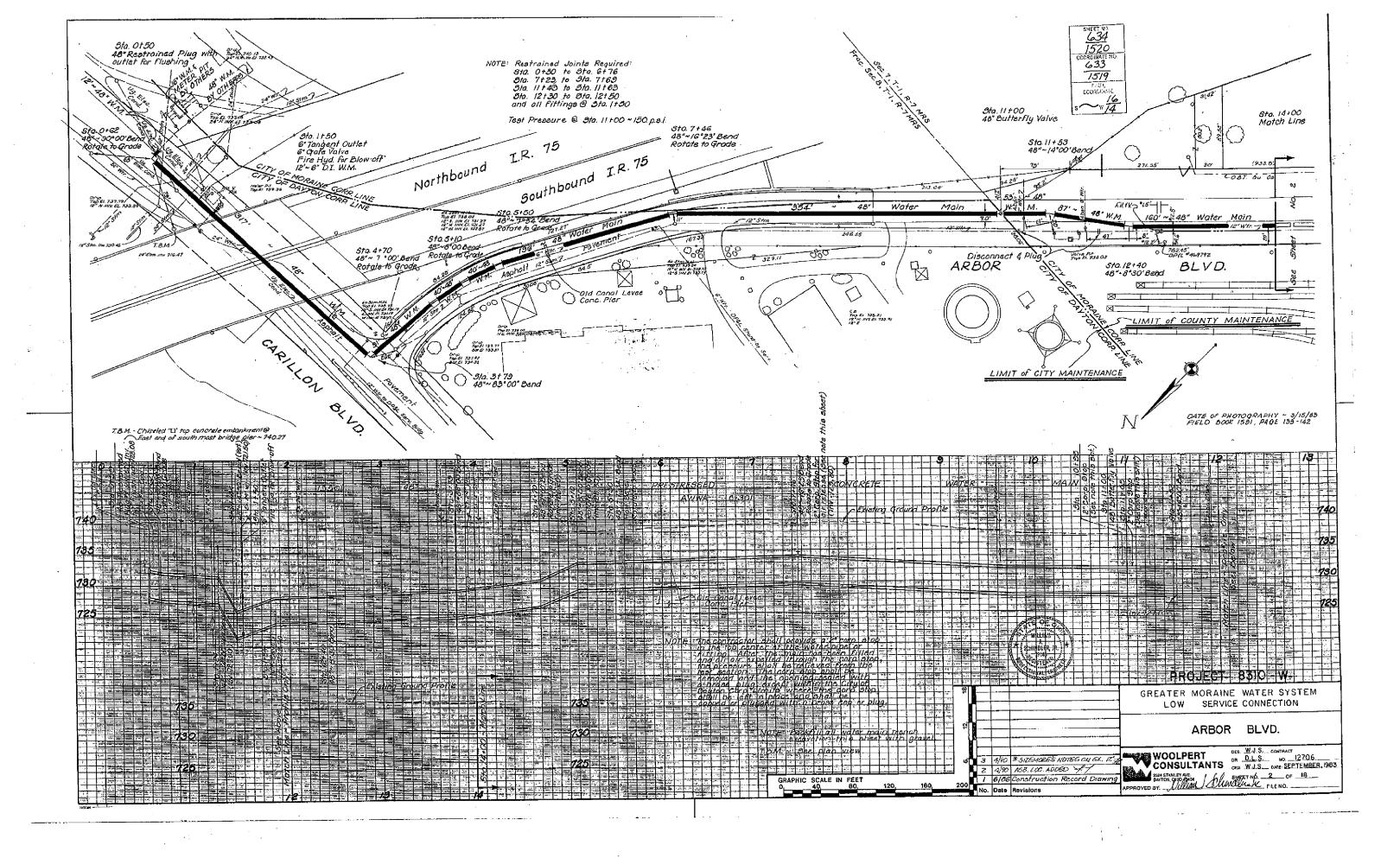
Sent: Friday, September 09, 2016 5:10 PM

To: Schaffer, Charles

Subject: RE: Dryden Road storm sewer

OK, it is the section of Dryden Road within the area depicted below, more specifically the part between the river to the north and East River Road to the south.

Thanks



From: East, Dominic <dominic.east@level3.com>
Sent: Monday, September 19, 2016 11:47 AM

To: Chan, Valerie

Subject: Return to Requestor - 1900 Dryden Rd

Attachments: Utility Map.pdf

Valerie,

Level 3 Communications, LLC ("Level 3") has received your utility notice dated 8/25/2016 regarding the 1900 Dryden Rd, Moraine OH ("Project"). In response to your inquiry please find the enclosed drawings indicating the approximate location of the Level 3 telecommunications facilities (the "Facilities"). Note that the locations of Facilities shown on these drawings are only approximate and Level 3 hereby disclaims any responsibility for the accuracy of this information. Persons working in the area covered by these drawings must contact the statewide Call-Before-You-Dig System to ascertain the location of underground facilities prior to performing any excavation.

After reviewing the information you provided it is uncertain whether the Project will impact the Facilities.

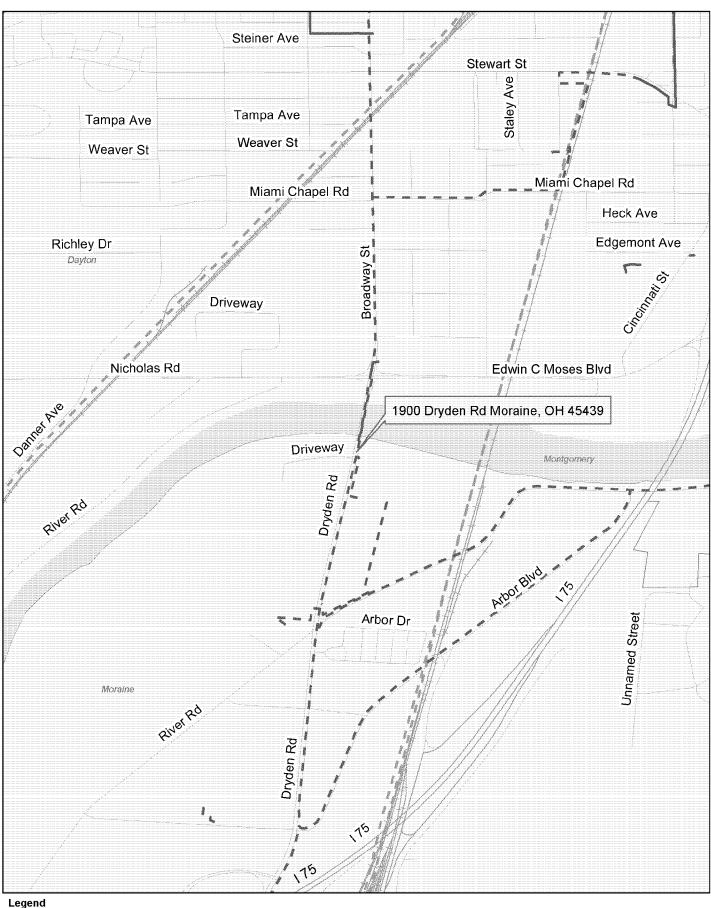
The Facilities have been constructed on private property and/or public right of way with the authorization of the applicable property owner. Prior to any work being performed by or on behalf of Level 3 all costs associated with the adjustment and/or relocation of the Facilities are required to be paid in full to Level 3.

Please review the enclosed information. If it is determined that an adjustment and/or relocation of the Facilities is necessary to accommodate the Project, please contact the undersigned to discuss and reference the file number 65368 GL with any future communications. Any changes or additions to the Project plans or parameters should be submitted to Level 3 for review of potential new impacts to the Level 3 facilities. Unless Level 3 receives information that such adjustment or relocation is necessary it will assume that any potential conflict between the Project and Facilities has been eliminated.

Thank you,

Dominic East
Business Analyst, OSP Relocations
Level 3 Communications
1025 El Dorado Blvd
Broomfield, CO 80021
p: 720.888.4398
e: dominic.east@level3.com

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Level 3 Facilities

■ Aerial

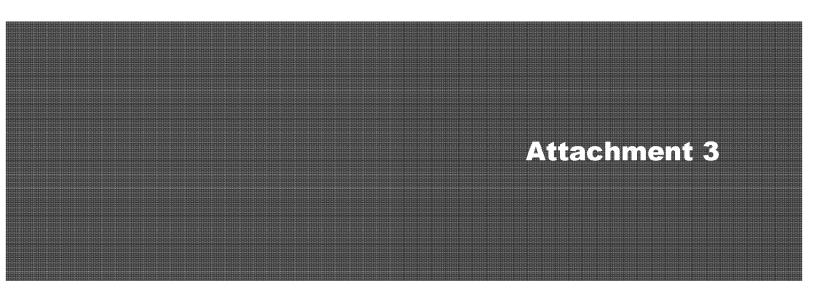
www Underground

···· Underground

Non-Level 3 Fiber Optic Facilities

∞ Aerial

Note that the locations of Facilities shown on these drawings are only approximate and Level 3 hereby disclaims any responsibility to third parties for the accuracy of this information. Persons working in the area covered by these drawings must contact the statewide Call-Before-You-Dig System to ascertain the location of underground facilities prior to performing any excavation.



GHD | 038443Memo-37-AttTPs



Page 1 of 1

PROJECT NAME: SOUTH DAYTON DUMP

PROJECT NUMBER: 038443

CLIENT: ILLINOIS TOOL WORKS INC

LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP11-09

DATE COMPLETED: August 20, 2009

DRILLING METHOD: GEOPROBE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	MONITORING WELL	<u>ر</u>		SAM		
	GROUND SURFACE	730.48		NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
-2	SW/GW - SAND AND GRAVEL (FILL), medium to coarse sand, fine gravel, loose, well graded, brown/tan/off-white, dry SM - SAND AND SILT (FILL), fine to medium sand, cohesive, dark gray/black, dry	728.88	CEMENT BENTONITE CHIPS BENTONITE	1GP		70		0.0
-4	- gravel and sand at 4.6ft BGS		0.5" PVC WELL CASING					
-8	- crushed stone at 8.5ft BGS		BOREHOLE 0.5" PVC WELL SCREEN	2GP		70		0.0
-10	SW - SAND, little fine gravel, medium to coarse sand, loose, well graded, brown, dry	718.48 716.98	SAND PACK	3GP		70		0.0
16	GW/SW - SAND AND GRAVEL, medium to coarse sand, fine gravel, loose, brown, dry	710.90		4GP		70		0.
-20	- wet at 22.0ft BGS		WELL DETAILS Screened interval: 722.48 to 721.48ft 8.00 to 9.00ft BGS	5GP		80		0.0
- 24		705.48	Length: 1ft Diameter: 0.5in Slot Size: 0.010 Material: PVC Seal: 729.48 to 723.15ft	301		00		O.
-26	END OF BOREHOLE @ 25.0ft BGS	7 33.70	1.00 to 7.33ft BGS Material: BENTONITE CHIPS Sand Pack: 723.15 to 710.48ft 7.33 to 20.00ft BGS Material: #3 SAND					
	OTES: MEASURING POINT ELEVATIONS MAY CHANGE; RE							



GRA.

38443-60 GAS PROBES.GPJ

OVERBURDEN LOG

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: SOUTH DAYTON DUMP

PROJECT NUMBER: 038443

CLIENT: ILLINOIS TOOL WORKS INC LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP12-09

DATE COMPLETED: August 21, 2009

DRILLING METHOD: GEOPROBE FIELD PERSONNEL: J. CLOSE

SAMPLE **DEPTH** ELEV. STRATIGRAPHIC DESCRIPTION & REMARKS MONITORING WELL ft BGS ft NTERVAL VALUE % PID (ppm) NUMBER REC (GROUND SURFACE 730.61 z SW - SAND (FILL), trace silt, trace fine gravel, CEMENT medium to coarse grained sand, loose, well BENTONITE graded, brown, dry 2 0.5" PVC 1GP 50 0.0 WELL CASING 4 BOREHOLE 0.5" PVC -6 - red clay brick fragments at 6.0ft BGS WELL 724.51 SCREEN ML - SANDY SILT (FILL), cohesive, dark brown, damp 723 11 2GP 80 0.0 - rock fragments at 7.8ft BGS 8 SAND PACK SW/GW - SAND AND GRAVEL, medium to coarse sand, fine gravel, loose, well graded, light brown/tan, dry - 10 - rock fragments at 9.3ft BGS -12 3GP 70 0.0 - rock fragments at 13.0ft BGS **-- 14** - rock fragments at 14.2ft BGS -16 - rock fragments at 17.0ft BGS 4GP 70 0.0 -18 20 22 5GP 0.0 60 24 2/5/10 705.61 END OF BOREHOLE @ 25.0ft BGS CORP.GDT WELL DETAILS - 26 Screened interval: 725.61 to 724.61ft 5.00 to 6.00ft BGS -28 Length: 1ft Diameter: 0.5in Slot Size: 0.010 <u></u> 30 Material: PVC Seal 729.61 to 726.28ft 1.00 to 4.33ft BGS -32Material: BENTONITE Sand Pack: 726.31 to 705.61ft - 34 4.30 to 25.00ft BGS Material: #3 SAND MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE NOTES: WATER FOUND ∑



Page 1 of 1

PROJECT NAME: SOUTH DAYTON DUMP

PROJECT NUMBER: 038443

LOCATION: MORAINE, OHIO

CLIENT: ILLINOIS TOOL WORKS INC

HOLE DESIGNATION: GP19-09

DATE COMPLETED: August 24, 2009

DRILLING METHOD: GEOPROBE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS		ELEV. ft	MONITORING WELL	<u>~</u>	1	SAM		 ਵੇ
	GROUND SUR	RFACE	734.23		NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
-2	GW/SW - SAND AND GRAVEL (FILL), fine, medium and coarse sand, fine gravel, loose, well graded, brown SW - SAND (FILL), fine, medium and coarse sand, little fine gravel, well graded, medium to dark gray, dry		731.23	CEMENT BENTONITE CHIPS BENTONITE 0.5" PVC WELL CASING 2" BOREHOLE	1GP		70		0.0
-6	- bottom of FILL at 22.5ft BGS			0.5" PVC WELL SCREEN SAND PACK	2GP		50		0.0
12	- pieces of glass at 14.0ft BGS				3GP		40		4.5
16	- 1' perched H ₂ O at 19.0ft BGS				4GP		40		0.0
22	SW/GW - SAND AND GRAVEL, loose, well graded, brown to medium brown, dry		711.73		5GP		74		0.0
-26	END OF BOREHOLE @ 25.0ft BGS	[·æ.•	709.23	WELL DETAILS Screened interval: 730.23 to 729.23ft 4.00 to 5.00ft BGS					
30				Length: 1ft Diameter: 0.5in Slot Size: 0.010 Material: PVC Seal:					
-32				733.23 to 730.90ft 1.00 to 3.33ft BGS Material: BENTONITE CHIPS Sand Pack:					
-34				730.90 to 709.23ft 3.33 to 25.00ft BGS Material: #3 SAND					



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PROJECT NAME: SOUTH DAYTON DUMP

PROJECT NUMBER: 038443

CLIENT: ILLINOIS TOOL WORKS INC

LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP20-09

DATE COMPLETED: August 24, 2009

DRILLING METHOD: GEOPROBE

ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV.	MONITORING WELL	-		SAM		
	GROUND SURFACE	731.51		NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
-2	SW/GW - SAND AND GRAVEL (FILL), medium to coarse sand, fine gravel, loose, well graded, brown, dry SW - SAND (FILL), fine to medium sand, silt, consolidated, well graded, dark gray, moist	727.51	CEMENT BENTONITE CHIPS BENTONITE 0.5" PVC WELL CASING 2" BOREHOLE 0.5" PVC	1GP		70		0.0
-6	- rust sand at 6.5ft BGS - 1' gray sand, wet (perched water) at 7.0ft BGS - foundry-type sand at 8.5ft BGS	700.54	WELL SCREEN SAND PACK	2GP		60		0.0
-10	SW/GW - SAND AND GRAVEL (FILL), medium to coarse sand, fine gravel, silt, well graded, brown, dry	722.51		3GP		80		0.0
-14 -16 -18	- rock fragments at 16.7ft BGS			4GP		60		0.1
- 20 - 22 - 24	- wet at 23.7ft BGS		∇	5GP		60		0.0
-26	END OF BOREHOLE @ 25.0ft BGS	706.51	WELL DETAILS Screened interval:			-		
-28			727.51 to 726.51ft 4.00 to 5.00ft BGS Length: 1ft Diameter: 0.5in Slot Size: 0.010					
-30			Material: PVC Seal: 730.51 to 728.18ft					
-32			1.00 to 3.33ft BGS Material: BENTONITE CHIPS Sand Pack: 728.18 to 706.51ft 3.33 to 25.00ft BGS Material: #3 SAND					



Page 1 of 1

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

PROJECT NUMBER: 038443-62-03

CLIENT: PRP GROUP LOCATION: MORAINE, OH HOLE DESIGNATION: GP22-13
DATE COMPLETED: July 3, 2013
DRILLING METHOD: GEOPROBE

DEPTH	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH	SOIL GAS PROBE			SAME	PLE	
ft BGS	STRATIGICATION DESCRIPTION & REMARKS	ft BGS	SOL GAS PROBL	NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
- - - -2 -	TOPSOIL SW-SAND (FILL), loose, trace fine gravel, fine to medium sand, some coarse sand, well graded, brown, dry	0.17 2.80	CONCRETE	1GP		3.8		0.0
_ 4 - -	SP-SAND (FILL), slightly compact, fine grained, poorly graded, gray, dry - glass pieces at 4.0ft BGS - some coarse sand/fine gravel, brown at 4.5ft BGS	5.00	BENTONITE CHIPS					0.0
-6 - - - -8	SW-SAND (FILL), little fine gravel, loose, medium to coarse sand, well graded, brown/black, dry		1/2" PVC WELL CASING 2 1/4" BOREHOLE	2GP		3.7		0.0
- - - - - 10			BOREHOLE			-		49.9 41.5
- -12 - - - -				3GP		3.2		26.2
- - - - - - - - - - - - - - - - - - -	SW/GW-SILTY SAND/GRAVEL, loose, fine, medium and coarse sand, fine gravel, brown,	19.00	SAND PACK	4GP (18-20) (GT-001)		0.0		0.0
20 - 22 - 24 - 26 - 28 - 28 - 28 - 28 - 28 - 28 - 28	dry END OF BOREHOLE @ 20.0ft BGS	20.00	WELL DETAILS SCREEN Screened interval: 19.00 to 20.00ft BGS Length: 1ft Diameter: 0.5in Slot Size: 0.25 Material: PVC Seal: 2.00 to 18.20ft BGS					
26 - 26 26			Material: BENTONITE CHIPS Sand Pack: 19.00 to 20.00ft BGS Material: #3 SAND					
28 - 28								
	NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; RE	FER TO C	CURRENT ELEVATION TABLE					



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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

PROJECT NUMBER: 038443-62-03

CLIENT: PRP GROUP LOCATION: MORAINE, OH HOLE DESIGNATION: GP23-13

DATE COMPLETED: July 3, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	SOIL GAS PROBE		Ι.	SAM		
11 003		11 863		NUMBER	INTERVAL	REC (ff)	'N' VALUE	PID (ppm)
	SW/GW-SAND/GRAVEL (FILL), loose, medium to coarse sand, fine to coarse gravel, well graded, brown/tan, dry	1.80	CONCRETE					0.3
-2	SW-SAND (FILL), trace fine gravel, medium to coarse sand, trace fine sand, well graded, gray, dry - red clay brick fragments at 3.0ft BGS	1.00		1GP		3.7		0.0
4	- fine grained silty sand at 3.8ft BGS - silty sand/gravel at 4.5ft BGS		BENTONITE CHIPS					0.0
6			1/2" PVC WELL CASING	2GP		2.0		2.6
8			BOREHOLE					0.0
10	- wood pieces at 10.0ft BGS	12.00						0.2
	GW/SW-SAND AND GRAVEL, medium to coarse sand, fine gravel, well graded	12.00		3GP		2.4		0.0
16						-		0.0
18			1/4" HOLED	4GP		2.0		0.0
20	- silty, moist at 18.7ft BGS	20.00	PVC WELL SCREEN SAND PACK	(18-20') (GT-002)				0.0
	END OF BOREHOLE @ 20.0ft BGS	20.00	WELL DETAILS Screened interval: 17.50 to 18.50ft BGS					
-22			Length: 1ft Diameter: 0.5in Slot Size: 0.25 Material: PVC					
24			Seal: 2.00 to 16.70ft BGS Material: BENTONITE CHIPS Sand Pack:					
26			16.70 to 20.00ft BGS Material: #3 SAND					
-28								
 <u>NC</u>	OTES: MEASURING POINT ELEVATIONS MAY CHANGE;	 REFER TO C	URRENT ELEVATION TABLE					
	CHEMICAL ANALYSIS							



Page 1 of 1

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

PROJECT NUMBER: 038443-62-03

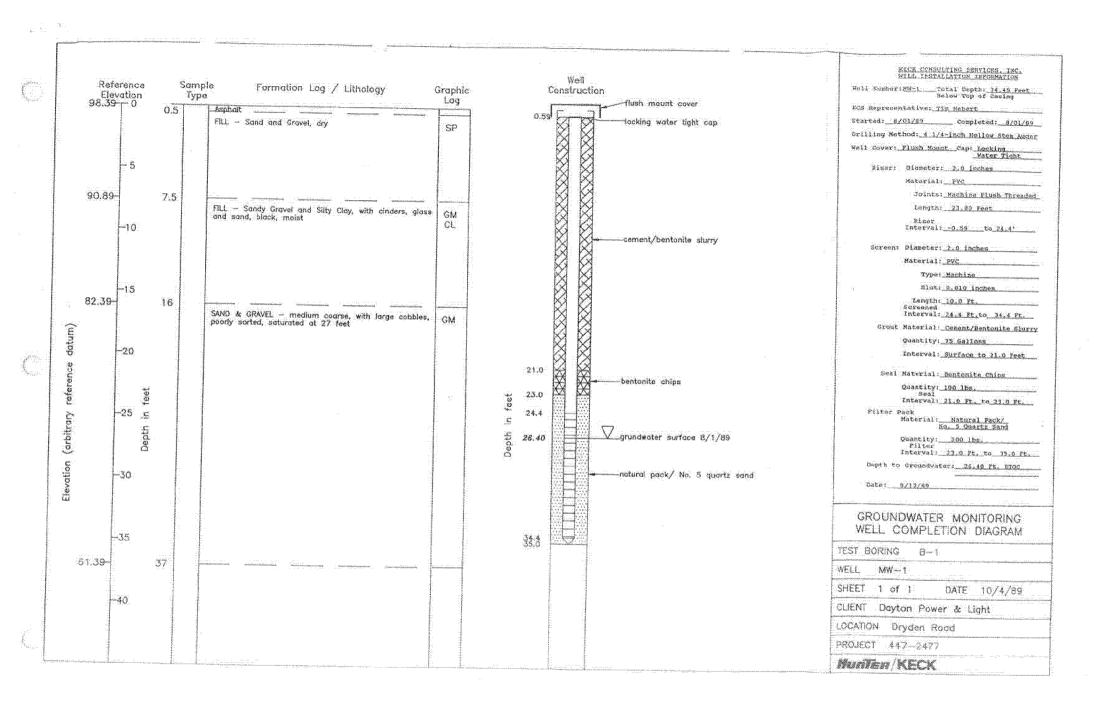
CLIENT: PRP GROUP LOCATION: MORAINE, OH HOLE DESIGNATION: GP24-13

DATE COMPLETED: July 3, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH	SOIL GAS PROBE			SAME	PLE	
ft BGS	STRATIGRAPHIC DESCRIPTION & REWARKS	ft BGS	SOIL GAS PROBE	NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
_	SP-SAND, trace silt, loose, little fine gravel, fine grained, poorly graded, brown, dry - silt at 1.3ft BGS	1.40	CONCRETE					0.0
-2 - -	SW-SAND, loose, medium to coarse sand, well graded, gray black - red clay brick at 1.7ft BGS SP-SAND, slightly compact, fine grained,	2.00		1GP		4.0		0.0
-4 - - - - 6	poorly graded, gray - perched water zone at 4.5ft BGS		BENTONITE CHIPS 1/2" PVC			_		0.0
-8	CL-SILTY CLAY, trace coarse sand and fine gravel, cohesive, low plasticity, brown, dry	7.00 7.80	WELL CASING	2GP		4.5		2.5
_ _ _ _ 10	SP-SAND, slightly compact, fine grained, poorly graded, gray - coarse sand, yellow/black at 8.9ft BGS - silty sand at 9.5ft BGS		BÖREHOLE					0.0
- - - - 12								0.0
_ _ 14				3GP		0.7		0.0
_ - 16	ML-CLAYEY SILT, brown, moist	15.00 16.00		(15-17 ¹ \ GT-003		_		0.0
100 100	SW/GW-SAND/GRAVEL, loose, well graded, brown/tan, dry	10.00	SAND PACK	4GP		2.5		0.0
₩ - - - - - - - - - - - - - - - - - - -		20.00	1/4" HOLED PVC WELL					0.0
29.51 	END OF BOREHOLE @ 20.0ft BGS	25.00	WELL DETAILS SCREEN Screened interval: 19.00 to 20.00ft BGS					
22 			Length: 1ft Diameter: 0.5in Slot Size: 0.25 Material: PVC					
- 24 - 24 - 24 - 26 - 26 - 26 - 28 - 28			Seal: 2.00 to 18.20ft BGS Material: BENTONITE CHIPS					
			Sand Pack. 19.00 to 20.00ft BGS Material: #3 SAND					
OVERBURDE 	NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; RE	FER TO C	URRENT ELEVATION TABLE			<u> </u>		
OV C	CHEMICAL ANALYSIS							

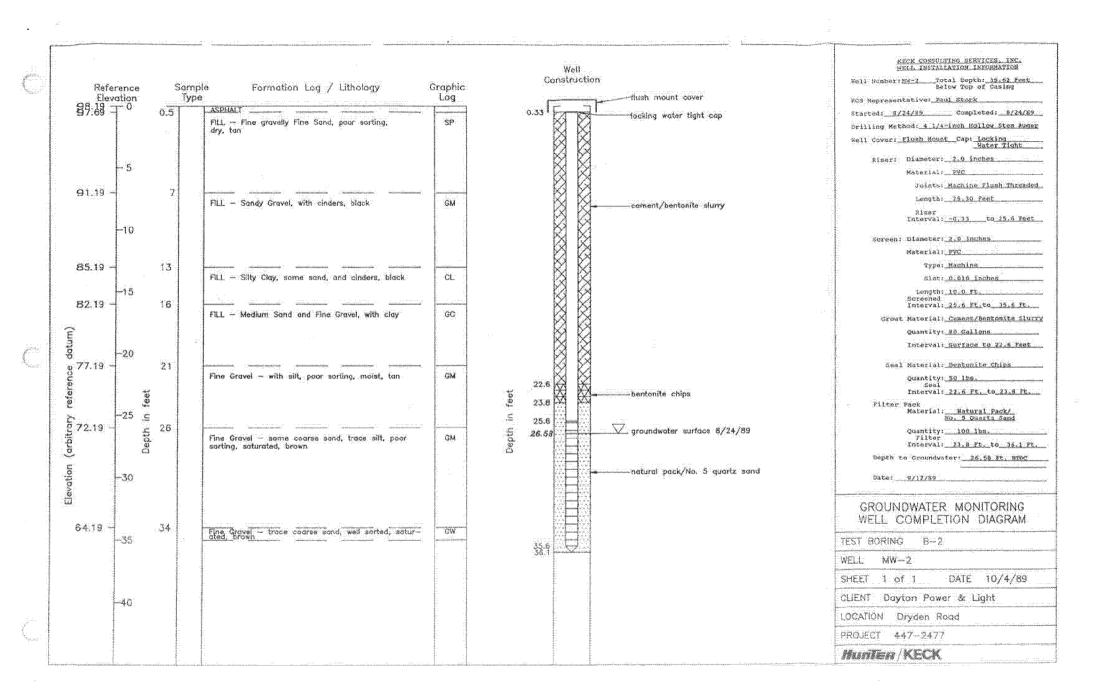


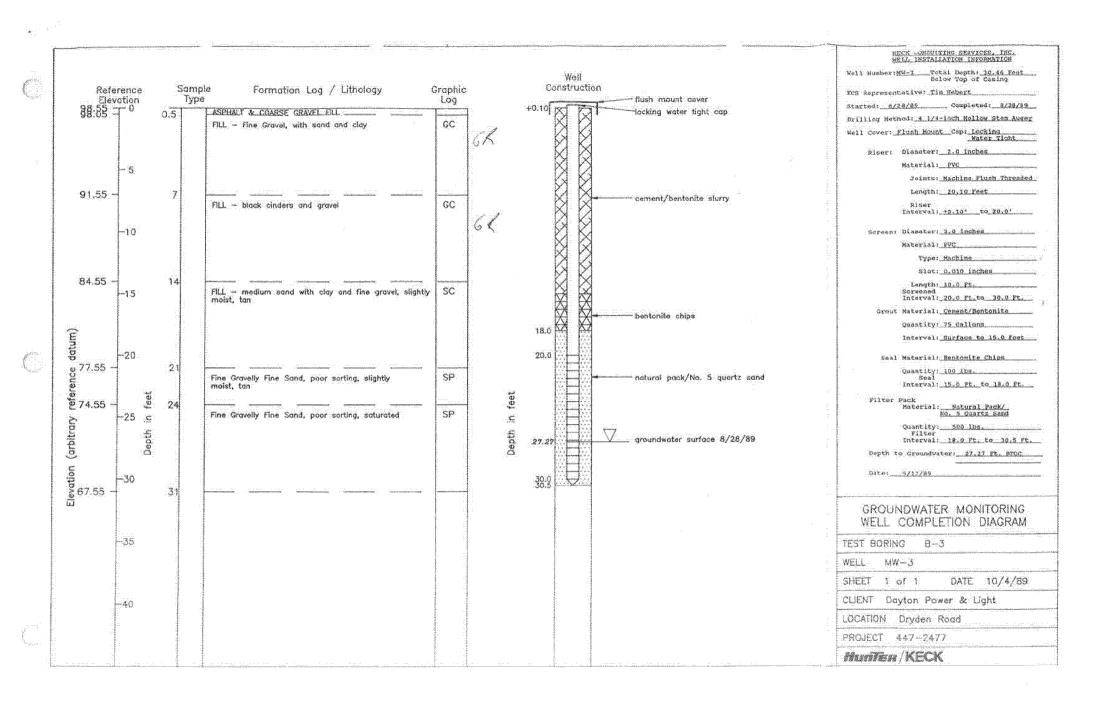
			SULTING SER	
PROJE	CT: DP&L:	Dryden Road		WELL/BORING No. MW-1/B-1
LOCATI	IDN: Dayt	on, Ohio		DATE DRILLED: 8/1/89
DRILLING	METHOD: H	ollow Stem Auger		CASING TYPE/DIA: Schd. 40 PVC/2-inch
TOTAL DE	PTH DRILLET	37 feet		TOTAL CASING: 34.45 feet
GROUND	ELEVATION:	98.39 feet		T.O.C. ELEVATION: 97.80 feet
GROUT T	YPE/QUANTIT	Bentonite and Y: approx. 75 ga	Cement/ 11ons	SCREEN TYPE/LENGTH: PVC/10 feet
. para principal de la constitución de la constituc		Surface to 21 fe		SCREENED INTERVAL: approx. 24.4 to 34.4 f
OEPTH TO) WATER: a	pprox. 27 feet		GRAVEL PACK TYPE: Keck #50
WATER LE	VEL ELEVATI	ON:		GRAVEL PACK INTERVAL: 23 to 25 feet
				STATIC WATER LEVEL: 26.40 feet DATE: 9/12/89
REMAR	(S) All	elevational data	nas been rei	erenced to an arbitrary benchmark.
LOGGE	D BY: T	imothy F. Hebert		SIGNATURE
In feet DEPTH.	H2O/SOIL SAMPLE	FORMATION DES	CRIPTION	
05		Asphalt		
.5 - 7.5		Sand and Gravel;	Coarse grav	vel, well rounded, medium to fine sand,
•		.brown, not	<u>saturated, fi</u>	ll material
7.5- 16				st, disturbed soils (fill) containing
				, not saturated, minor perched water
				1. 14 feet, identified a thin stringer
				poor cutting returns, brown clay
16 – 37				coarse gravel and was cohesive. coarse and and gravel, hard drilling du
			megram co c	odrae dun ann Kraier, narn artitik an
			bbles, poorly	
, , , , , , , , , , , , , , , , , , , 		an and a det data to the dat	4 12 ***********************************	sorted with some silts, appears
SPLITI SPOO	Y SAMPLING	an and a det data to the dat	bbles, poorly t approximate	sorted with some silts, appears
SPLIT SPOI	Number	saturated a	4 12 ***********************************	ely 27 feet PID Comments
Interval		saturated a	t approximate	PID Comments
Interval 4 — 6	Number	saturated a Blow Counts Re 7,21,22,27 ap	t approximate	PID Comments (1 ppm Sand and gravel, brown, saturated)
	Number SS1	### Saturated a ###################################	t approximate covery	PID Comments < 1 ppm Sand and gravel, brown, saturated < 1 Sandy Clay, black-brown
Interval 4 - 6 9 - 11	Number SS1 SS2	### Saturated a ###################################	covery prox. 10 inches	PID Comments < 1 ppm Sand and gravel, brown, saturated < 1 Sandy Clay, black-brown
Interval 4 - 6 9 - 11	Number SS1 SS2	### Saturated a #### Blow Counts Re 7,21,22,27 ap 4,4,6,10 ap 6,8,10,20 ap	covery prox. 10 inches	PID Comments <pre></pre>
Interval 4 - 6 9 - 11 14 - 16	Number SS1 SS2 SS3	Saturated a Blow Counts Re 7,21,22,27 ap 4,4,6,10 ap 6,8,10,20 ap	covery prox. 10 inches prox. 10 inches	PID Comments <pre></pre>



		DOSTRIC /WINT I	TOC MATA
	1	BORING/WELL KECK CONSULTING SE	LUG DAIA rvices, inc.
PROJEC	T DP&L:	Dryden Road	WELL/BORING No. MW-2/B-3
LOCATI	DN: Dayto	on, Ohio	DATE DRILLED: 8/25/89
DRILLING	METHOO: 4	t-inch Hollow Stem Auger	CASING TYPE/DIA: PVC/2.0 inch
TOTAL DE	PTH DRILLED): 36 feet BGL	TOTAL CASING: 35.62 feet
GROUND	ELEVATION:	98.19 feet	T.O.C. ELEVATION: 97.86 feet
GROUT T	PE/QUANTIT	See groundwater monitoring Y: wellcompletion diagrams	SCREEN TYPE/LENGTH:0.010 PVC/10 feet
GROUT IN	TERVAL(S):	n.	SCREENED INTERVAL: 25.6 to 35.6 feet
DEPTH TO	WATER:	26.0 feet BGL	GRAVEL PACK TYPE: No. 5 Quartz Sand
WATER LE	VEL ELEVATI	ON:	GRAVEL PACK INTERVAL: 23.8 to 36.1 feet
*		Ch	STATIC WATER LEVEL: 26,58 ft. DATE: 9/12/89
REMARK	(Sı On	e sample every 5 feet; BGL	= below ground level
*	annant to the second se		
LOGGET) BYı	Paul Stork	SIGNATURE
In feet DEPTH.	H2O/SOIL SAMPLE	FORMATION DESCRIPTION	
05	44444	Asphalt	
4 - 6	B3-1	0.75 feet Fill, fine gravel	ly sand, some medium and coarse sand,
10,30,44,19	1045		oor sorting and subrounded to sub-
		angular, dry, tan. O.	
9 - 11	pi	<u> </u>	Note: at 7.0 feet, auger cuttings were
12,12,11,6		black, sandy gravel, with c	
14 - 16		0.8 feet Fill, silty clay,	some medium sand and cinders, moist,
3,12,15,10	. 1103	low plasticity, black,	
		0.2 feet Fine gravelly clay	, medium plasticity, slightly moist, tan
		1.0/2.0 Recovery	
19 – 21	B3-3	**************************************	and fine gravel with clay, poor
12,15,10		sorting, slightly mois	t, tan. 0.7/2.0 Recovery
Annual Control of the	B3-4	0.5 feet Pounded through qu	artzite coarse gravel
8/-105- 37,19	1135	0.4 feet Fine gravel with c	oarse, medium, and fine sand, trace silt,
		poor sorting, moist, t	an
		0.1 feet Fine gravelly clay	, trace medium sand, medium plasticity.
		moist, tan, tip of spo	on was saturated with water
		1.0/2.0 Recovery	
		MINIS SANTANIA SANTANIA SENTINGA SINGA SANTANIA SANTANIA SANTANIA SANTANIA SANTANIA SANTANIA SANTANIA SANTANIA	
		· · · · · · · · · · · · · · · · · · ·	

		BORING/WELL LOG DATA KECK CONSULTING SERVICES, INC.
PROJEC	Tı DP&L:	Dryden PAGE: 2 DATE: 8/25/85/ELL/BORING No.1 B-3
Indepth	H2O/SOIL SAMPLE	FORMATION DESCRIPTION
29 – 31	B3-5	0.8 feet Fine gravel, some coarse sand, trace silt and fine sand,
	1147	poor sorting, saturated, brown, slight hydrocarbon odor
		0.8/2.0 Recovery
<u> 34 – 35 </u>	B36	0.9 feet Fine gravel, trace coarse sand, well sorted, sub-
46,100/4	1206	rounded, grading into medium sand with fine sand, trace
	*	fine gravel and coarse sand, moderate sorting, saturated,
		brown, hydrocarbon odor. 0.8/0.9 Recovery
7		
ÿ:		
	-4	
	Mittheway in the second se	
	4	





				<i>_ل_</i> ل	**************************************				
			WELL CONSULTING SE		ATA				
PROJE	CT: DP	&L: Dryden_R	oad	VELL/BORING No.1 B-2					
LOCAT	ION: Da:	yton, Ohio		DATE DRILL	LED: 8/3/89				
DRILLING	METHOD: 1	Hollow Stem A	uger	CASING TYPE/D	NA: N/A				
TOTAL 0	EPTH DRILLEI); 27 feet		TOTAL CASING:	N/A				
GROUND	ELEVATION:	98.19 fee	t	T.O.C. ELEVATIO	W: N/A				
GROUT T	YPE/QUANTIT		and Cement/ 90 gallons	SCREEN TYPE/A	LENGTH: N/A				
GROUT II	NTERVAL(S):	0 - 27 fe	et	screened inte	RVAL: N/A				
DEPTH TO	O WATER:	approx. 26	feet	GRAVEL PACK	TYPE: N/A				
WATER L	EVEL ELEVAT	ION: N/A	Hamiliani, P	GRAVEL PACK I	INTERVAL: N/A				
				STATIC WATER	LEVEL: N/A DATE:				
REMAR	KSı The	ground eleva	tion at B-2 has	been referenc	ced to a benchmark of				
	- 4		bandoned due to						
PURCE.		mothy F. Heb		SIGNATURE					
In feet	HSC/2017	mothy F. neu	CIL						
DEPTH	SAMPLE	FORMATION	DESCRIPTION	**************************************					
05		Asphalt							
.5 - 6		Sand and Gr	avel; coarse gr	avel with med	lium to fine sand, brown.				
·		not sa	turated, fill ma	terial					
6 - 17		Sandy Clay;	black-brown, m	edium to fine	e sand, some indications				
		of min	or perched water	at approxima	ately 7 feet, soils				
		are fi	ll material as g	lass and oxid	lized metal fragments are				
		presen	t in cuttings	· · · · · · · · · · · · · · · · · · ·					
17 - 27		Sand and Gr	<u>avel; brown, me</u>	dium to coars	se well rounded gravel.				
		medium	to coarse sand,	poorly sorte	ed, moist, saturation				
		appear	s to be approxim	ately 26 feet	. Auger refusal at				
		27 fee	t, decided to ab	<u>andon borehol</u>	e and re-drill. Was				
· · · · · · · · · · · · · · · · · · ·		benton	ite/cement grout	ed through th	ne augers to the near				
hammijayi ilman buran mahar		surfac	e and plugged wi	th granual be	entonite. No well installed				
SPLIT SPOO	SAMPLING	•							
Interval	Mumber	Blow Counts	Recovery	PID C	onnents				
4 - 6	1	8, 8, 10, 11	approx. 12 inches	<1 5	Sand & gravel, brown, fill				
9 – 11	2	6, 6	approx. 8 inches	<1 8	Sandy Clay, black-brown, fill				
14 - 16	3	6, 8, 17	approx. 5 inches		SA, fill				
19 – 21	4	74, 26	approx. 12 inches		Sand and gravel, brown				
24 - 26	5	17, 16, 17	no sample retained	NA					

		BOKING/WELL KECK CONSULTING SE	LOG DATA rvices, inc.					
PROJE(CT: DP8	L: Dryden Road	WELL/BORING No.1 M-4					
LOCATI	ON: Day	rton, Ohio	DATE DRILLED: August 28, 1989					
DRILLING	METHOD: H	Hollow Stem Auger	CASING TYPE/DIA: PVC Sch. 40/2-inch					
TOTAL DE	PTH DRILLET): 31 feet	TOTAL CASING: Approx. 31 feet					
GROUND	ELEVATION:	98.55 feet	T.O.C. ELEVATION: 98.65 feet					
GROUT TO	PE/QUANTIT	Granular Bentonite/100 lbs. Y:Bentonite Cement/45 gal.	SCREEN TYPE/LENGTH: PVC/10 feet					
	TERVAL(S):	15 to 18 feet 1 to 15 feet	SCREENED INTERVAL: 21 to 31 feet					
DEPTH TO	WATER:	Approx. 26 feet	GRAVEL PACK TYPE: Natural Keck #5					
WATER LE	VEL ELEVAT	ION:	GRAVEL PACK INTERVAL: 18 to 26 feet					
	7.0.2.2	A	STATIC WATER LEVEL: 27.27 ft. DATE: 9/12/89					
REMARK	'Cı M-	-4 is re-drill boring for B-4	; No split-spoon samples collected .					
CETIBISE		: M-4						
LOGGEI	***************************************	mothy F. Hebert	SIGNATURE:					
	HSO/SOIL		SIGNATORE:					
DEPTH	SAHPLE	FORMATION DESCRIPTION						
		General Interpretation:						
0 3"		Asphalt						
3"1.5		Backfill; grade stone						
1.5 - 6!		Backfill; sand and gravel,	brown, moist					
6 - 14'		Sandy Clay; black, moist,	appears to be fill material, saturated					
·	: :	or perched zone of med	ium fine sand at approximately 11 feet,					
		occasional fine grave	l, increase gravel with depth,					
		rough drilling at 14 f	eet					
14 - 31'		Sand and Gravel; moist, me	dium coarse, poorly sorted, interbeds					
<u> </u>		and gray-brown silt an	d clay indicated by drilling pressure.					
·	<u> </u>	Rough drilling, break	in drill pressure at 21 feet, poor					
			sal at 31 feet. Unit contains some					
		substantial well round	ed cobbles.					

	ds.iist	and the second s						
			Andrew Company					
<u>'</u>								
								

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FIELD BOREHOLE LOG

BOREHOLE NO.: MW-4/SB-4

TOTAL DEPTH: 30'

PROJECT INFORMATION

PROJECT: Tier I

DP&L - Dryden Rd.

JOB NO .:

0103398A.00

LOGGED BY:

SITE LOCATION:

Cindy Edgington

PROJECT MANAGER: Edward A. Council, PG

DATES DRILLED:

March 6, 2006

DRILLING INFORMATION

DRILLING CO .:

Fore Drilling Co.

DRILLER:

Robert Bender

RIG TYPE:

Diedrich D50

METHOD OF DRILLING: Hollow stem auger

SAMPLING METHODS: Split Spoon

HAMMER WT./DROP

140 lb., 30 in.

Water level during drilling

Water level in completed well

DEPTH	SOIL SYMBOLS	Poss. Soil Cont,	SOIL DESCRIPTION	SAMP. No.	Rec. inch.	Blows / ft.	PID ppm	BORING COMPLETION	WELL DESCRIPTION											
0_						7.														
4	20,000,000		Asphalt: Asphalt		N/A	NM	NM													
	01/001/00		Gravel: Gravel Sub-base		λ.		52.													
			Fill Material: Fill, tan Sandy Gravel, moist, friable, dense,		16	8-14-30-30	0.0													
5-			non-plastic		16	8-27-27-24	0.0													
			Clay and Silt: Red brown to gray Sitly Clay to Clay Silt, plastic,		16	5-10-15-15	0.0		5											
10 -			moist, dense, firm, sandier at 8'		7	5-5-3-3	0.0		- Bentonite Seal											
					13	3-3-3-3	0.0													
				Sen."	15	14-5-4-5	0.0													
15			Gravel and Sand: Light gray		23	5-8-10-18	0.0		- PVC Casing											
		N. V.				Sandy Gravel, friable, dense, non-plastic, hard	MW-4 16'-18'	14	10-10-10-8	1.0										
20				r -	13	9-11-14-7	0.0													
				NA)		ń.	\	۸	۱ -	ň	43 : ¥1	a •	A F	iù V			12	7-11-21-29	0.0	
y -	8.8.8.8	Ĵ.	Gravel and Sand; Same petroleum odors below 22*		24	12-21-26-28	0.0		Sand Pack											
25 文	0,0,0,0 0,0,0,0 0,0,0,0 8:B:B:B			MW-4 24'-26'	19	12-31-36-36	0.0		- Screened Interval											
	6262629		Gravel and Sand: Same but saturated		0	50/1	0.0													
1				ey.	7	22-49-38-21	0.0													
30 -					ì															

NOTES: Weather: partly cloudy, mild



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FIELD BOREHOLE LOG

BOREHOLE NO.: MW-5/SB-5

TOTAL DEPTH: 31'

PROJECT INFORMATION

PROJECT: Tier I

SITE LOCATION:

DP&L - Dryden Rd.

JOB NO.:

0103398A.00

LOGGED BY:

Cindy Edgington

PROJECT MANAGER: Edward A. Council, PG

DATES DRILLED:

March 6, 2006

DRILLING INFORMATION

DRILLING CO.:

Fore Drilling Co.

DRILLER:

Robert Bender

RIG TYPE:

Diedrich D50

METHOD OF DRILLING: Hollow stem auger

SAMPLING METHODS: Split Spoon

HAMMER WT./DROP

140 lb., 30 in.

Water level during drilling

Water level in completed well

EPTH	SOIL SYMBOLS	Poss. Soil Cont.	SOIL DESCRIPTION	SAMP. No.	Rec. inch.	Blows / ft.	PID ppm	BORING COMPLETION	WELL DESCRIPTION
0	0.000000000000000000000000000000000000	***************************************	Asphalt: Asphalt		N/A	NM	N/A		
]			Gravel: Gravel Sub-base Gravel and Sand: Light tan		21	8-8-9-8	0.0		
5 -			Sandy Gravel, moist, non-plastic, hard		11	10-12-11-12	0.0		
					12	10-8-8-9	0.0		
.0-					20	2-2-4-5	0.0		- Bentonite Seal
					17	4-4-2-3	0.0		
1			Gravel and Sand: Same but black color		24	2-4-5-2	0.0		
5 -	8-8-8-8				7	5-7-9-11	0.0		PVC Casing
			Gravel and Sand: Same but tan color		13	9-10-11-18	0.0		
0	0,0,0,0				14	9-10-25-46	0.0		
			<u>.</u>	MW-5	3	12-50/3	0.0	Section Control Contro	
				22'-24' MW-5	18	12-10-10-12	0.0		
:5 ⊈			Gravel and Sand: Same but	24'-26'	24	8-16-16-14	0.0		- Sand Pack - Screened
1	0202020		saturated, borehole cleanout below 26'	is .	NM	NM	NM		Interval
0					NM NM	NM NM	NM NM		

NOTES: Weather: partly cloudy, mild



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FIELD BOREHOLE LOG

BOREHOLE NO.: MW-6/SB-6

TOTAL DEPTH: 24'

PROJECT INFORMATION

PROJECT:

Tier I

SITE LOCATION:

DP&L - Dryden Rd.

JOB NO.:

0103398A.00

LOGGED BY:

Cindy Edgington

PROJECT MANAGER: Edward A. Council, PG

DATES DRILLED:

March 7, 2006

DRILLING INFORMATION

DRILLING CO .:

Fore Drilling Co.

DRILLER:

Robert Bender

RIG TYPE:

Diedrich D50

METHOD OF DRILLING: Hollow stem auger

SAMPLING METHODS: Split Spoon

HAMMER WT./DROP

140 lb., 30 in.

Water level during drilling

Water level in completed well

DEPTH	SOIL SYMBOLS	Poss. Soil Cont.	SOIL DESCRIPTION	SAMP. No.	Rec. inch.	Blows / ft.	PID ppm	BORING COMPLETION	WELL DESCRIPTION
0_			Fill Material: Asphalt, Clay and Gravel		N/A	NM.	N/A		77
			Gravel and Sand: Light tan to brown/black Sandy Gravel, moist, non-plastic, hard		16	5-6-5-10	0.0		
2.71					.7:	7-8-9-8	0.0		and the state of t
7.			Clay and Silt: Greenish brown Clay Silt to Silt Clay, plastic, dense, firm		11	3-3-5-3	0.0		- Bentonite Seal
10-			Gravel and Sand: Tan brown Clay Silt Gravel, moist, dense, slightly plastic		10	8-12-12-14	0.0		
***]	0.0.0.0				14	6-10-10-10	0.0		PVC Casing
1			. 52.		8	14-8-8-12	0.0		- PVC Casing
15			Gravel and Sand: Same but petroleum odor at 14'	MW-6 14'-16'	14	7-12-10-12	0.0		
▼ .	0,000			MW-6 16'-18'	16	8-10-8-16	0.0		Sand Pack
			Gravel and Sand; Same but saturated at 18'		16	7-12-12-12	0.0		Screened Interval
			Gravel and Sand: Borehole cleanout below 20'		NM	NM	MM		
					NM	NM	NM		

NOTES: Weather: partly cloudy, mild



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FIELD BOREHOLE LOG

BOREHOLE NO.: MW-7 (MW-C)

TOTAL DEPTH: 26'

PROJECT	INFORMATION	

PROJECT: Tier 2

SITE LOCATION: DP&L - Dryden Rd.

JOB NO.: 0103398A.00

LOGGED BY: Edward A. Council, PG

PROJECT MANAGER: Edward A. Council, PG

DATES DRILLED: May 3, 2010

DRILLING INFORMATION

DRILLING CO.: Fore Drilling Co.

DRILLER: Robert Bender

RIG TYPE: Diedrich D50

METHOD OF DRILLING: Hollow stem auger

SAMPLING METHODS: Geoprobe 3' Acetate Sleeves

HAMMER WT./DROP Hydraulic Impact

water level during drilling

Water level in completed well

DEPTH	SOIL SYMBOLS	Poss. Soil Cont.	SOIL DESCRIPTION	SAMP. No.	Rec. inch.	Blows / ft.	PID ppm	BORING COMPLETION	WELL DESCRIPTIO
0									
			Clay and Silt: Brown Silty Clay to Clay Silt with minor Gravel, friable, moist and plastic.		10	NM	8.7		*
					9	NM	4.4		
5-					9	NM	4.5		
					5	NM	4.1		- Bentonite Sea
10-	0,0,0,0		Gravel and Sand: Gray to brown Sandy Gravel to Gravel Sand, moist. More brown with depth.		7	NM	4.1		
	0-			į.	16	NM	4.2		
્ની					14	NM	4.7		- PVC Casing
15	0,0,0,0				10	NM	4.4		
y]		0.5 0.6 16-1	MW-7/C 16'-18'	12	NM	7.0			
					8	ÑМ	5.8		
ħ	0707071				4	NM	11.2		- Sand Pack - Screened Interval
1.1					5	NM	7.2		ণ্ড এটেকটে ওটা কট
25			Gravel and Sand: Same, end of boring at 26 feet below ground surface.	MW-7/C 24'-26'	9	NM	91,2		

NOTES: Weather: partly cloudy, mild



PROJECT:

SITE LOCATION:

LJB inc.

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FIELD BOREHOLE LOG

BOREHOLE NO.: MW-8 (MW-D)

TOTAL DEPTH: 26'

PROJECT INFORMATION

DRILLING CO .: Tier 2

DP&L - Dryden Rd. DRILLER:

JOB NO .: 0103398A.00

LOGGED BY: Edward A. Council, PG

PROJECT MANAGER: Edward A. Council, PG

DATES DRILLED: May 3, 2010 DRILLING INFORMATION

Fore Drilling Co.

Robert Bender

RIG TYPE: Diedrich D50

METHOD OF DRILLING: Hollow stem auger

SAMPLING METHODS: Geoprobe 3' Acetate Sleeves

HAMMER WT./DROP Hydraulic Impact

ЕРТН	SOIL SYMBOLS	Poss. Soil Cont.	SOIL DESCRIPTION	SAMP. No.	Rec. inch.	Blows / ft.	PID ppm	BORING COMPLETION	WELL DESCRIPTION
0_			10 years 400			- 14 - 14 - 1			
			Clay and Silt: Brown Silty Clay to Clay Silt with minor Gravel, friable, moist and plastic.		2	NM	14.5		
			Gravel and Sand: Gray to brown Sandy to Gravel Sand, moist		14	NM	30.2		
5-					11	NM	4.9		
	000000				9:	NM	27.1		- Bentonite Seal
10 -					14	NM	15.3		
	0-0-0-0-				14	NM	11.1		
					11	NM	5.4		- PVC Casing
L5 -				MW-8/D	14	NM	60.0		
				14'-18'	9	NM	4.1		
					7	MM	48.5		
					6	NM	48.6		- Sand Pack - Screened Interval
					13	NM	55.1		HEGIAGI
:5 -			Gravel and Sand: Same, end of boring at 26 feet below ground surface.	MW-8/D 24'-26'	19	NM	85.2		v

NOTES: Weather: partly cloudy, mild



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3100 Research Boulevard P.O. Box 20246 Dayton, Ohio 45420-0246 (937) 259-5000 tel / (937) 259-5100 fax ljbinc.com FIELD BOREHOLE LOG

BOREHOLE NO.: MW-9 (MW-E)

TOTAL DEPTH: 26'

DRILLING INFORMATION

PROJECT INFORMATION

Tier 2

SITE LOCATION:

DP&L - Dryden Rd.

JOB NO .:

PROJECT:

0103398A.00

LOGGED BY:

DATES DRILLED:

Edward A. Council, PG

PROJECT MANAGER: Edward A. Council, PG

May 3, 2010

DRILLING CO .:

Fore Drilling Co.

DRILLER:

Robert Bender

RIG TYPE:

Diedrich D50

METHOD OF DRILLING: Hollow stem auger SAMPLING METHODS: Geoprobe 3' Acetate Sleeves

HAMMER WT./DROP

Hydraulic Impact

Water level during drilling

Water level in completed well

DEPTH	SOIL SYMBOLS	Poss, Soil Cont.	SOIL DESCRIPTION	SAMP. No.	Rec. inch.	Blows / ft.	PID ppm	BORING COMPLETION	WELL DESCRIPTIO
0						5. W 4.5.5			
1			Clay and Silt: Brown Silty Clay to Clay Silt with minor Gravel, friable, moist and plastic.		11	NM	25.0		
, , , , , , , , , , , , , , , , , , ,					6	NM	14.3		
5				ä	5	NM	13.9		
				MW-9/E	13	ММ	25.5		- Bentonite Se
10	0-0-0-		Gravel and Sand: Gray to brown Sandy to Gravel Sand, moist.	6'-10'	10	NM	35.3		
	0.0.0.0				12	NM	14.6		
	0,0,0,0				15	ŇМ	34.0		- PVC Casing
25 -			<u>2</u>		14	NM	14.3		
32	10		*	MW-9/E 16'-18'	16	NM	39.9		
					12	NM	18.2		- Sand Pack
	070707		Gravel and Sand: Rock		5	NM	9.0		- Screened Interval
Ţ	000000		fragement or large gravel at 22', end of boring at 24 feet below ground surface.		0	NM	0.0		

NOTES: Weather: partly cloudy, mild

Page 1 of 1

Boring Log

Boring #: MW-10

Date Drilled: March, 28, 2012

Driller: Fore Testing

Geologist: E. Council, PG Total Depth Drilled: 27' BGS

Drilling Methods: Geoprobe

and HSA

Sample Interval: Every 2 to 3 foot

			10.01.4.4
Sample depth ft BGS	Rec inches	Lithology	PID ppm
0'-3'	12"	0" to 6", G Sub-base 6" to Bot, Br StSd with G. Fr, Mst, Dense, Non-plas, FILL	0.0 0.0
3'-6'	NR -	NR	NR
6'-9'	NR	NR	NR
9'-12'	6"	Br SdG, NP, Dry to Moist	0.0
12'-14'	10"	Same	0.0
14'-16'	14"	Same	0.0
16'-18'	14"	Same	0,0
18'-20'	3"	SG, Wet	0.0
20'-22'	12"	Same as 16' – 18', Coarser, Wet	0.0
22'-24'	5"	Same, Wet	0.0
24'-26'	6"	Same, Wet	0:0
26'-27.4'	10"	Same, EOB at 27.4' BGS	0.0

C - Clay, SC - Silty Clay CS - Clay Silt, St - Silt, Sd - Sand, G - Gravel

WELL CONSTRUCTION

Depth ft BGS	Description
27' - 17'	2" PVC Well Screen
17' - 0.25	2" PVC Riser
27' - 15'	Sand Pack
15' – 13'	Bentonite Seal
13'- 0.5'	Bentonite Grout Cement
0.5'- 0.0'	Flush mounted Cover

Lt - Light, Dk - Dark, Med - Medium, Br - Brown

Fr - Friable, Mst - Moist, Plas - Plastic, NP - Non Plastic

Bot - Bottom, EOB - End of Boring, BGS - Below Grounds Surface

NR - No Recovery

Boring Log

Boring #: MW-11

Date Drilled: March, 28, 2012

Driller: Fore Testing

Geologist: E. Council, PG Total Depth Drilled: 26' BGS

Drilling Methods: HSA

Sample Interval: Every 2 foot

	4		a 130 a 50 a 15
Sample	Rec	Lithology	PID ppm
depth	inches		
ft BGS			
0'-2'	12"	Dk Br CSd-StSd, Mst, NP, Fr, with Brick Fragments, FILL	0.0
2'-4'	10"	Same	0.0
4'-6'	6"	Same	0.0
6'-8'	8"	Same	0.0
8'-10'	10"	Br to Lt Gray SdG, Firm, Mst, Hard, Dense	0.0
10'-12'	8"	Br SdC-CSt, Plas, Firm, Mst, Hard, Dense	0.0
12'-14'	5"	0" to 4", Same	0.0
		4" to bot, Gray GSd, Firm, Mst, Hard, Dense	0.0
14'-16'	10"	Br SdC to GC with Black Ash, NP, Mst, Dense	0.0
16'-18'	4"	Same, Ash FILL	0.0
18'-20'	8"	Same	0.0
20'-22'	427	Same, Metal at 4", FILL, Wet	0,0
22'-24'	16"	Br GSd-SdG, Firm, Mst, Hard, Dense, Wet	0.0
24'-26'	12"	Same, Wet	0.0

C - Clay, SC - Silty Clay CS - Clay Silt, St - Silt, Sd - Sand, G - Gravel

WELL CONSTRUCTION

Depth ft BGS	Description
26' - 16'	2" PVC Well Screen
16' - 0.25	2" PVC Riser
26' - 14'	Sand Pack
14' - 12'	Bentonite Seal
12'- 0.5'	Bentonite Grout Cement
0.5'- 0.0'	Flush mounted Cover

Lt - Light, Dk - Dark, Med - Medium, Br - Brown

Fr - Friable, Mst - Moist, Plas - Plastic, NP - Non Plastic

Bot - Bottom, EOB - End of Boring, BGS - Below Grounds Surface

NR - No Recovery

Boring Log

Boring#: MW-12

Date Drilled: March, 28, 2012

Driller: Fore Testing

Geologist: E. Council, PG Total Depth Drilled: 26' BGS

Drilling Methods: HSA

Sample Interval: Every 2 foot

Sample depth ft BGS	Rec inches	Lithology	PID ppm
0'-2'	122	Gray G	0.0
2'-4'	· P	Br SdG, NP, Fri	0.0
4'-6'	8"	Gray-Bn SdG, NP, Moist, Dense, FILL	0.0
6'-8'	4"	Br Sd, NP, Dense, with Wood Fragments, FILL	0.0
8'-10'	7"	Br Sd, NP, Dense, with Brick Fragments, FILL	0.0
10'-12'	11"	Br CSd, Plas., Moist, Dense, with Brick Fragments, FILL	0.0
12'-14'	9"	0" to 3", Med Br SdG, Moist, Dense, FILL	0.0
		3" to Bot, Lt Br SdG, Moist, Dense, Firm, FILL	0.0
14'-16'	7"	Same	0.0
16'-18'	9**	Same	0.0
18'-20'	10"	Gray SdG, NP, Dense, Hard, Wet	0.0
20'-22'	8**	Same, Wet	0.0
22'-24'	7"	Same, Wet	0.0
24'-26'	3"	Same, Wet	0.0

C - Clay, SC - Silty Clay CS - Clay Silt, St - Silt, Sd - Sand, G - Gravel

WELL CONSTRUCTION

Depth ft BGS	Description
26' - 16'	2" PVC Well Screen
16' - 0.25	2" PVC Riser
26' - 14'	Sand Pack
14' - 12'	Bentonite Seal
12'-0.5'	Bentonite Grout Cement
0.5'- 0.0'	Flush mounted Cover

Lt - Light, Dk - Dark, Med - Medium, Br - Brown

Fr - Friable, Mst - Moist, Plas - Plastic, NP - Non Plastic

Bot - Bottom, EOB - End of Boring, BGS - Below Grounds Surface

NR - No Recovery



LJB Inc.

3100 Research Boulevard P.O. Box 20246 Dayton, Ohio 45420-0246 (937) 259-5000 tel / (937) 259-5100 fax ljbinc.com

FIELD BOREHOLE LOG

BOREHOLE NO.: MW-A/SB-A

TOTAL DEPTH: 32'

PROJECT INFORMATION

PROJECT:

Tier I

SITE LOCATION:

DP&L - Dryden Rd

JOB NO.:

0103398A.00

LOGGED BY:

Cindy Edgington

PROJECT MANAGER: Edward A. Council, PG

DATES DRILLED:

July 11, 2008

DRILLING INFORMATION

DRILLING CO .:

Fore Drilling Co.

DRILLER:

Robert Bender

RIG TYPE:

Diedrich D50

METHOD OF DRILLING: 6" Hollow Stem Auger

SAMPLING METHODS: Geoprobe 3' Acetate Sleeves

HAMMER WT./DROP

Hydraulic Impact

sz Water level during drilling

Water level in completed well

DEPTH	SOIL SYMBOLS	Poss. Soil Cont.	SOIL DESCRIPTION	SAMP. No.	Rec. inch.	Blows / ft.	PID ppm	BORING COMPLETION	WELL DESCRIPTION
0_				PALA 0A 0A 0A 10				**	
]	0 - 0 - 0 - 10		Asphalt: Asphalt		24	Hydr. Push	0.0		
4			Gravel and Sand: tan, friable and moist		24	Hydr. Push	0.0		÷
5-	KIKIKIK				24	Hydr. Push	0.0		
		W-1		# **	24	Hydr. Push	0.0		
10-					24	Hydr. Push	0.0		
					24	Hydr. Push	0.0		- Bentonite Seal
	0707070				24	Hydr. Push	0.0		
15-					24	Hydr. Push	0.0		bv0 0
1					24	Hydr. Push	0.0		- PVC Casing
20					24	Hydr. Push	0.0		
					24	Hydr. Push	0.0		
*				Boring A	24	Hydr. Push	0.0		
25			Gravel and Sand: Same but saturated		24	Hydr. Push	0.0	The second of th	Caral David
					24	Hydr. Push	0.0		- Sand Pack - Screened Interval
30	6-6-6-6				24	Hydr. Push	0.0		metval
• • • • • • • • • • • • • • • • • • • •		i.			24	Hydr. Push	0.0	To the second se	

NOTES: Weather: partly cloudy

Page 1 of 1



3100 Research Boulevard P.O. Box 20246 Dayton, Ohio 45420-0246 (937) 259-5000 tel / (937) 259-5100 fax ljbinc.com

FIELD BOREHOLE LOG

BOREHOLE NO .: MW-B/SB-B

TOTAL DEPTH: 32'

PROJECT INFORMATION

PROJECT:

Tier I

SITE LOCATION:

DP&L - Dryden Rd

JOB NO .:

0103398A.00

LOGGED BY:

Cindy Edgington

PROJECT MANAGER: Edward A. Council, PG

DATES DRILLED:

July 11, 2008

DRILLING INFORMATION

DRILLING CO .:

Fore Drilling Co.

DRILLER:

Robert Bender

RIG TYPE:

Diedrich D50

METHOD OF DRILLING: 6" Hollow Stem Auger

SAMPLING METHODS: Geoprobe 3' Acetate Sleeves

HAMMER WT./DROP

Hydraulic Impact.

Water level during drilling

Water level in completed well

	Cont.	SOIL DESCRIPTION	No.	Rec. inch.	Blows / ft.	PID ppm	BORING COMPLETION	WELL DESCRIPTION
		,						
0-10-10-10		Asphalt: Asphalt		24	Hydr. Push	0,0		
0,0,0,0		Gravel and Sand: tan, friable and						
0,0,0,0		moist		24	Hydr. Push	0.0		
8-8-8-8				24	Hydr. Push	0.0		
				0 - Rock	Hydr. Push	0.0		**************************************
				24	Hydr. Push	0.0		
				24	Hydr. Push	0.0		- Bentonite Seal
		Fill Material: black and sandy		.24	Hydr. Push	0.0		**************************************
				24	Hydr. Push	0.0		
		Gravel and Sand: friable and moist		24	Hydr. Push	0.0		PVC Casing
8-8-8-8								
8787878				24	Hydr. Push	0.0		
0707070				24	Hydr. Push	0.0		
		and the second s	Boring B	24	Hydr. Push	0.0		
		Gravel and Sand: Same but saturated		24	Hydr. Push	0.0		
~ ~ ~ ~ ~ ~ ~ ~				24	Hydr, Push	0.0		- Sand Pack - Screened
8181818				24	Hydr. Push	0.0		Interval
				24	Hydr. Push	0.0		***
KI K			Gravel and Sand: tan, friable and moist Fill Material: black and sandy Fill Material: black and sandy Gravel and Sand: friable and moist Gravel and Sand: Same but saturated	Gravel and Sand: tan, friable and moist Fill Material: black and sandy Fill Material: black and sandy Gravel and Sand: friable and moist Gravel and Sand: friable and moist	Gravel and Sand: tan, friable and moist 24 24 24 24 24 24 24 24 24 24	Gravel and Sand: tan, friable and moist 24 Hydr. Push 25 Hydr. Push 26 Hydr. Push 27 Hydr. Push 28 Hydr. Push 28 Hydr. Push 29 Hydr. Push 20 Hydr. Push 20	Gravel and Sand: tan, friable and moist 24 Hydr. Push 0.0 25 Hydr. Push 0.0 26 Hydr. Push 0.0 27 Hydr. Push 0.0 28 Hydr. Push 0.0 29 Hydr. Push 0.0 20 Hydr. Push 0.0 20 Hydr. Push 0.0 21 Hydr. Push 0.0 22 Hydr. Push 0.0 23 Hydr. Push 0.0 24 Hydr. Push 0.0 26 Hydr. Push 0.0 27 Hydr. Push 0.0 28 Hydr. Push 0.0 29 Hydr. Push 0.0 20 Hydr. Push 0.0 20 Hydr. Push 0.0 20 Hydr. Push 0.0 21 Hydr. Push 0.0 22 Hydr. Push 0.0 23 Hydr. Push 0.0 24 Hydr. Push 0.0 26 Hydr. Push 0.0 27 Hydr. Push 0.0 28 Hydr. Push 0.0 29 Hydr. Push 0.0 20 Hydr. Push 0.0 20 Hydr. Push 0.0 21 Hydr. Push 0.0 22 Hydr. Push 0.0 23 Hydr. Push 0.0 24 Hydr. Push 0.0 24 Hydr. Push 0.0 25 Hydr. Push 0.0 26 Hydr. Push 0.0 27 Hydr. Push 0.0 28 Hydr. Push 0.0 29 Hydr. Push 0.0 20 Hydr. Push 0.0 20 Hydr. Push 0.0	Gravel and Sand: tan, friable and moist 24 Hydr. Push 0.0 24 Hydr. Push 0.0 25 Hydr. Push 0.0 26 Hydr. Push 0.0 27 Hydr. Push 0.0 28 Hydr. Push 0.0 29 Hydr. Push 0.0 20 Hydr. Push 0.0 21 Hydr. Push 0.0 22 Hydr. Push 0.0 23 Hydr. Push 0.0 24 Hydr. Push 0.0 26 Hydr. Push 0.0 27 Hydr. Push 0.0 28 Hydr. Push 0.0 29 Hydr. Push 0.0 20 Hydr. Push 0.0 20 Hydr. Push 0.0 21 Hydr. Push 0.0 22 Hydr. Push 0.0 23 Hydr. Push 0.0 24 Hydr. Push 0.0 26 Hydr. Push 0.0 27 Hydr. Push 0.0 28 Hydr. Push 0.0 29 Hydr. Push 0.0 20 Hydr. Push 0.0 21 Hydr. Push 0.0 22 Hydr. Push 0.0 23 Hydr. Push 0.0 24 Hydr. Push 0.0 24 Hydr. Push 0.0 25 Hydr. Push 0.0 26 Hydr. Push 0.0 27 Hydr. Push 0.0 28 Hydr. Push 0.0 29 Hydr. Push 0.0 20 Hydr. Push 0.0 21 Hydr. Push 0.0 22 Hydr. Push 0.0 23 Hydr. Push 0.0 24 Hydr. Push 0.0

NOTES: Weather: partly cloudy

Page 1 of 1

Log of Boring No. GW-1 S.C.S. ENGINEERS, DRYDEN ROAD, DAYTON, OHIO

Boring L Surface	ocation: As shown on Elevation:	boring local	tion plan	Date Sta		7-90 7-90
Stratum	Description of Material		Sample # & Type	Sample Depth	Blows Per 6*	"N" Blows/ft. Or Core Rec.
0.0' 0.5' 2.0'	(Fill) Asphalt (Fill) Brown sand and gr of cobbles - moist		14	0.5 - 2.5	4-5-7-9	16
	(Fill) Foundry sand, som trace of cinders, trace of		2A	2.5 - 4.5	8-9-10-7	17
	moist		3A	4.5 - 6.5	2-3-5-5	10
***************************************	The state of the s		4A	6.5 - 8.5	9-4-3-4	7
<u>10'</u>			5A	8.5 -10.5	4-5-4-6	10
Commission			6A	10.5-12.5	4-3-3-7	10
14.0' 15' 16.5'	(Original) Medium stiff d silt, some clay, trace of sa gravel - moist	the second of the control of	7A	12.5-14.5	7-5-4-4	8
	Very dense brown sand a some cobbles, trace of sile	nd gravel, - moist	8A	17.5-19.5	35-25-25-35	60
	(Becomes medium dense	at 23.5')	9A	22.5-24.5	44-21-11-9	20
25'	(Becomes wet at 25.5')	The state of the s		<i>3</i>	- Andrews - Andr	
Agendance of the control of the cont	(Becomes dense at 27.5')	powerspicanie minima majabianie minima majabianie majab	10A	27.5-29.5	22-21-22-23	45
30	Bottom of Boring at 31.0'					
Method: Technician: Job No.	Hollow Stem Auger TA/SA 46826	25.5 Depth: 26.1			ampler blit-Spoon elby Tube	

JUL-25-90 RED 14:09 DOWSER HURRY DRILLON

LOG OF WELL NO. GW-1

S.C.S. ENGINEERS, DRYDEN ROAD, DAYTON, OHIO

46826	Job Number	
5-7-90	Date Installed	
TA	Technician	
***	Surface Elevation	Concrete 7/// 0.0'
PVC	Riser Pipe Material	6.5
PVC	Screen Material	Benseal 2.5'
2"	Screen Diameter	Soil Backfill
0.010"	Screen Slot Size	
31.0'	Bottom of Boring	
30.0'	Bottom of Screen	16.0'
20.0'	Top of Screen	Bentonite Pellets
18.0'	Top of Sand	
16.0'	Top of Bentonite Pellet	Sand Pack
0.7'	Top of Bentonite Powder	
0.0'	Top of Concrete	20.0'
2.5'	Top of Soil Backfill	
0.4'	Top of Well Riser Pipe	
0.0'	Top of M.H. Cover	
25.5'	Initial Water Depth	
26.1'	Completion of Water Depth	7
	24 Hour Water Depth	7
And the second s	48 Hour Water Depth] 30.0'
	Hour Water Depth	31.0
		Remarks:



Log of Boring No. GW-2 S.C.S. ENGINEERS, DRYDEN ROAD, DAYTON, OHIO

Boring Lo Surface E	ocation: As shown on b Elevation:	oring locati	on plan	Date Star Date Con		8-90 8-90
Stratum:	Description of Material		Sample #	Sample Depth	Blows Per 6*	"N" Blows/ft. Or Core Rec.
0.0' 0.2' 2.0'	(Fill) Asphalt (Fill)Brown sand and grav silt - moist	el, some	1A	0.5 - 2.5	7-10-11-16	27
Montana ang ang ang ang ang ang ang ang ang	(Fill) Medium dense brown and gravel, trace of silt, tra-		2A	25-45	26-21-19-16	35
<u>5'</u> _	cobbles - moist		3A	4.5 - 6.5	9 -13-14-10	24
2.0'	(Fill) Black cinders and fou sand - moist (Fill) Medium stiff brown s	silt and	4A	6.5 - 8.5	6-4-4-5	9
10'	clay, trace of gravel - moist (Fill) Black cinders and fou		5A	8.5 -10.5	4-5-5-6	10
- Segment Specific	sand - moist		6A	10.5-12.5	4-4-2-4	6
			7A	12.5-14.5	7-5-5-4	9
	(Original) Dark brown silt, some sand, some clay - moist Medium dense brown sand and gravel, trace of silt, trace of cobbles moist (Becomes very dense at 23.5')		8A,	17.5-19.5	12-14-15-12	27
			9A	22.5-24.0	22-23-110	100+
	(Becomes wet at 25.8')					
Leavenments			10A	27.5-29.5	25-44-35-42	77
30'	Bottom of Boring at 31.5'					
Method: Hollow Stem Auger Technician: TA/SA Job No. 46826		Wate Initial Depth: Completion Did Depth After:	r Observa 25.8 epith: 25.3		Type Sampler X A. Split-Spoon B. C. Shelby Tube D.	

LOG JF WELL NO. GW-2

S.C.S. ENGINEERS, DRYDEN ROAD, DAYTON, OHIO

46826	Job Number	
5-8-90	Date installed	<u></u>
TA	Technician	0.0'
****	Surface Elevation	Concrete 7/1/
PVC	Riser Pipe Material	1.6' Benseal 0.4'
PVC	Screen Material	2.9'
2"	Screen Diameter	Soil Backfill
0.010"	Screen Slot Size	
31.5'	Bottom of Boring	
30.4'	Bottom of Screen	16.4
20.4'	Top of Screen	Bentonite Pellets
18.5°	Top of Sand	
16.4'	Top of Bentonite Pellet	Sand Pack
1.6'	Top of Bentonite Powder	
0.0'	Top of Concrete	20.4'
2.9'	Top of Soil Backfill	
0.4	Top of Well Riser Pipe	
0.0'	Top of M.H. Cover	
25.8'	Initial Water Depth	
25.3'	Completion of Water Depth	
	24 Hour Water Depth	
	48 Hour Water Depth	
	Hour Water Depth	31.5
		Remarks:

Log of Boring No. GW-3 S.C.S. ENGINEERS, DRYDEN ROAD, DAYTON, OHIO

ocation: Ac charman	. barina la	Man -1	N.2.2.2.2.		
Elevation:	r boring toca	tion plan			8-90 8-90
Description of Material		Sample # & Type	Sample Depth	Blows Per 6"	"N" Blows/ft. Or Core Rec
some cobbles, trace of sil	t - moist	IA	0.0 - 2.0	7-11-13-20	33
	*	2A	2.0 - 4.0	24-32-37-21	58
(Fill) Cinders and foundr	y sand, -	3A	4.0 - 5.9	16-16-90- 70/4"	100+
moist (Trace of glass at 8.5')		4A	6.0 - 8.0	27-8-7-5	12
(Trace of water at 10.0')		5A	8.0 -10.0	8-3-1-2	3
(Transport trades at 12.0)		6A	10.0-12.0	3-3-3-3	6
	at 14.0')	7A	12.0-14.0	3-2-2-2	4
		8A	14.0-16.0	6-6-8-9	17
(Original) Dense brown sa	and and	9A	16.0-18.0	12-16-16-16	32
gravel, trace of silt, trace of moist	of cobbles -	10A	18.0-20.0	21-33-26-18	44
		11A	23.0-25.0	14-14-16-16	32
(Becomes wet at 26.7')			: : ::		
		12A	28.0-30.0	13-28-21-16	37
Bottom of Boring at 33.0'					
Hollow Stem Auger TA/SA 46826	Initial Depth;	26.7 epth: 27.4		X A. Spl	mpler it-Spoon fby Tube
	Description of Material (Fill) Dense brown sand some cobbles, trace of sil (Becomes very dense at (Fill) Cinders and foundr moist (Trace of glass at 8.5') (Trace of water at 10.0') (Trace of water at 13.0') (Trace of metal and glass) (Original) Dense brown signavel, trace of silt, trace of moist (Becomes wet at 26.7') Bottom of Boring at 33.0' Hollow Stem Auger TA/SA	Description of Material (Fill) Dense brown sand and gravel, some cobbles, trace of silt - moist (Becomes very dense at 2.0') (Fill) Cinders and foundry sand, - moist (Trace of glass at 8.5') (Trace of water at 10.0') (Trace of water at 13.0') (Trace of metal and glass at 14.0') (Original) Dense brown sand and gravel, trace of silt, trace of cobbles - moist (Becomes wet at 26.7') Bottom of Boring at 33.0' Hollow Stem Auger TA/SA 46826	Elevation: Description of Material Description of Material Sample & & Type (Fill) Dense brown sand and gravel, some cobbles, trace of silt - moist (Becomes very dense at 2.0') 2A (Fill) Cinders and foundry sand, - moist (Trace of glass at 8.5') (Trace of water at 10.0') 5A (Trace of water at 13.0') (Trace of metal and glass at 14.0') 7A 8A (Original) Dense brown sand and gravel, trace of silt, trace of cobbles - moist 11A (Becomes wet at 26.7') 12A Bottom of Boring at 33.0' Water Observational Completion Depth: 27.4' Completion Depth: 27.4'	Description of Material Description of Material (Fill) Dense brown sand and gravel, some cobbles, trace of silt - moist (Becomes very dense at 2.0') (Fill) Cinders and foundry sand, - moist (Trace of glass at 8.5') (Trace of water at 10.0') Trace of water at 13.0') (Trace of metal and glass at 14.0') (Original) Dense brown sand and gravel, trace of silt, trace of cobbles - moist (Original) Dense brown sand and gravel, trace of silt, trace of cobbles - moist (Becomes wet at 26.7') Date Co Sample # & Type Depth 1A 0.0 - 2.0 2A 2.0 - 4.0 3A 4.0 - 5.9 (Fill) Cinders and foundry sand, - 4A 6.0 - 8.0 (Trace of water at 13.0') (Trace of water at 10.0') 8A 10.0-12.0 7A 12.0-14.0 8A 14.0-16.0 9A 16.0-18.0 10A 18.0-20.0 11A 23.0-25.0 Bottom of Boring at 33.0' Water Observations Hollow Stem Auger TA/SA 46826	Description of Material Sample # Sample Blows Per 6"

LOG JF WELL NO. GW-3

S.C.S. ENGINEERS, DRYDEN ROAD, DAYTON, OHIO

and the second s		
		Remarks:
	Hour Water Depth	33.0'
	48 Hour Water Depth] 目 32.0
	24 Hour Water Depth	
27.4'	Completion of Water Depth	
26.7'	Initial Water Depth	
0.0'	Top of M.H. Cover	
0.4'	Top of Well Riser Pipe	
2.5'	Top of Soil Backfill	
0.0'	Top of Concrete	
1.0'	Top of Bentonite Powder	22.0'
18.0	Top of Bentonite Pellet	Sand Pack
, 19.8'	Top of Sand	19.8'
22.0'	Top of Screen	Bentonite Pellets
32.0'	Bottom of Screen	Rentarita Pallata
33.0′	Bottom of Boring	
0.010"	Screen Slot Size	
2"	Screen Diameter	Soil Backfill
PVC	Screen Material	2.5'
PVC	Riser Pipe Material	1.6' D.4'
- Amagar regit	Surface Elevation	Concrete 7/1/A V////
TA	Technician	0.0'
5-8-90	Date Installed	
46826	Job Number	

Client: Dayton Power & Light MONITORING WELL WP-4, GW Surface Elevation: It, MSL Location: Dayton, Ohio Coordinates:N; E Project No: 0590005.03 Date Drilled: 07/28/94 Total borehole depth: 34 ft. Logged by: Jim O'Brien Drilled by: United Geosciences SCS ENGINEERS Well Construction INTERVAL (IL) HEADSPACE (ppm) # RECOVERY SYNBOL LOG DEPTH (IL) ELEYATION (IR, MSL) SAMPLE Concrete BLOWS DESCRIPTION 50 Brown fill with rock and gravel. 609 00 09 Bentonite/Grout Mix 0 09 -5 Black fly ash fill, contains metal, brick and miscellaneous debris. 2-in, Sch 40 PVC Riser Pipe 40 Bentonite Seal 45 -20 GRAVEL with rock and cobbles 2-In. Sch. 40 PVC Well Screen 0.01 In. Slotted -25 Otz Sand Filter Pack SAND and GRAVEL with rock, wet WP-4A 50 0.5 (SP). Water has a petroleum odor. -30 00 Boring terminated at 34 ft on -35 7/28/94. Set well point from 29 to 32 /t.

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Page Fot f

Client: Daylon Power & Light MONITORING WELL WP-5, GW 5 Surface Elevation: 1t, MSL Location: Dayton, Ohio Coordinates:N: E Project No: 0590005.03 Date Drilled: 07/28/94 Total borehole depth: 34 ft. Logged by: Jim O'Brien Drilled by: United Geosciences SCS ENGINEERS Well Construction SAMPLE INTERVAL (11.) SYMBOL LOG X RECOVERY DEPTH (11.) ELEYATION HEADSPACE (II, MSL) (bpqd) Concrete BLOWS DESCRIPTION 009 Dense rock and gravel fill. 000 ٥ 00 Bentonite/Grout Mix 5 0 0 00 0 00 Sch 40 PVC Riser Pipe 2000 0 -10 GRAVEL with rock and cobbles 00000000 Bentonite Seal 45 2-In. 1000 -20 Brown SAND and coarse GRAVEL 0.0 (SP). 00 2-in, Sch 40 PVC Well Screen 0.0 -25 00 Otz Sand 00 Becomes rocky at 28 ft, wet. 00 WP-5A 75 5,0 Water has a petroleum odor. -30 0.0 Boring terminated at 34 ft on -35 7/28/94. Set well point from 31 to 34 ft.

40

Page Lof i

Client: Dayton Power & Light

Location: Dayton, Ohio

Date Drilled: 07/29/94
Drilled by: United Geosciences

Surface Elevation: ft. MSL

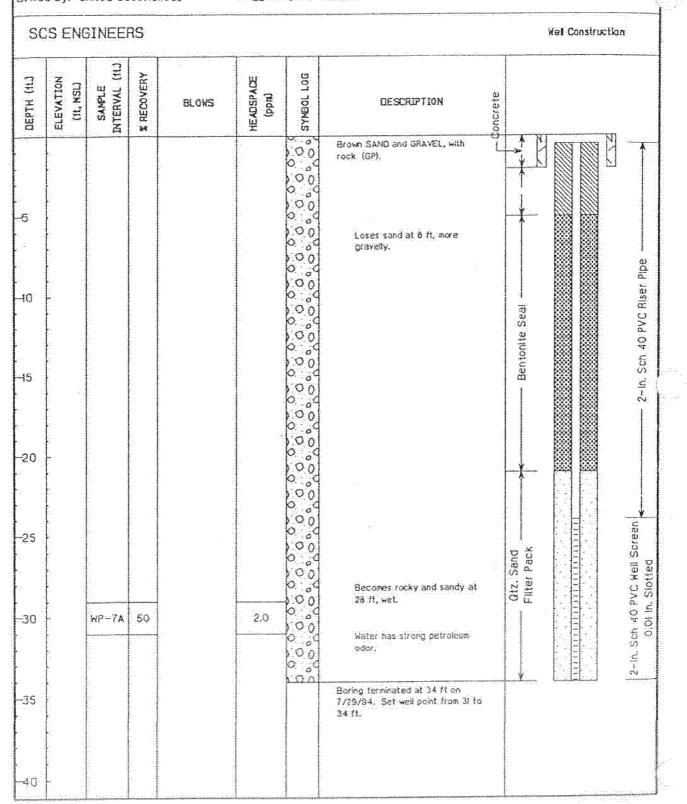
Coordinates:N; E

Total borehole depth: 34 ft.

Logged by: Jim O'Brien

MONITORING WELL WP-7, GW

Project No: 0590005.03



Client: Dayton Power & Light MONITORING WELL WP-8, GW Surface Elevation: ft, MSL Location: Dayton, Ohio Coordinates:N ; E Project No: 0590005.03 Date Orilled: 07/29/94 Total borehole depth: 34 ft. Orilled by: United Geosciences Logged by: Jim O'Brien SCS ENGINEERS Well Construction DATERVAL (11.) SYNBOL LOG X RECOVERY DEPTH (11.) ELEVATION HEADSPACE CE, ASU SAMPLE (mdd) Concrete BLOWS DESCRIPTION Brown silty CLAY fill. Bentonite/Grout Mix GRAVEL with rock and cobbles -5 (GP). Sch 40 PVC Riser Pipe 10 Bentonite Seal 45 2-in. -20 2-In. Sch 40 PVC Well Screen -25 Filter Pack 0.01 In. Slotted 100 Becomes sandy at 28 ft, wet. WP-8A 75 -30 .o.0 0 0 0 0 0 0 Boring terminated at 34 ft on -35 7/29/94. Set well point from 31 to 34 ft.

-40

Page 1 of 1

MONITORING WELL WP-10,GW Client: Dayton Power & Light Surface Elevation: ft, MSL Project No: 0590005.03 Location: Dayton, Ohio Coordinates:N: E Total borehole depth: 34 ft. Date Orlled: 07/30/94 Logged by: Jim O'Brien Drilled by: United Geosciences Well Construction SGS ENGINEERS SAMPLE INTERVAL (11.) SYNBOL LOG X RECOVERY HEADSPACE DEPTH (11.) ELEVATION (III, NSL) (pbus) Concrete DESCRIPTION BLOWS Rock and gravel. Bentonite/Grout Mix 5 2-In, Sch 40 PVC Riser Pipe 40 Black fly ash fill. Bentonite Seal 45 GRAVEL with rock and cobbles -20 2-in, Sch 40 PVC Well Screen -25 Gtz Sand Filter Pack 0.01 In. Slotted SAND and GRAVEL, wet (SP). WP-10A 75 1.0 -30 00 0.0 Boring terminated at 34 ft on 7/30/94. Set well point from 31 -35

to 34 ft.

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Page fold



Page 1 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

PROJECT NUMBER: 038443-74-02

CLIENT: PRP GROUP LOCATION: MORAINE, OH HOLE DESIGNATION: BH03-13
DATE COMPLETED: June 13, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	NUMBER	NTERVAL	C (#)	N' VALUE	PID (ppm)
				Ş	E E	REC	ž	
	ASPHALT	1.00						0.0
-2	SW-SAND (FILL), coarse gravel, brick fragments, loose, medium sand, well graded, brown, dry			1GP		3.0		0.0
-4		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$						0.0
6		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BACKFILLED WITH BENTONITE					0.0
	ML-SILT (FILL), trace fine gravel, fine grained	6.50 7.50	CHIPS	2GP		2.8		0.0
-8	SW-SAND (FILL), coarse gravel fragments, loose, medium sand, well graded, tan/brown, dry			20.		2.0		0.0
·10		11.00						0.0
12	SP-SAND (FILL), medium sand, poorly graded, brown SW-SAND (native), fine gravel fragments,	11.50		3GP		3.4		0.0
14	loose, medium sand, well graded, brown/tan, dry							0.0
16	- 0.25' coarse gravel layer at 16.5ft BGS							
-18				4GP		4.0		0.0
-20		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						0.0
- 22	- Wet, increasing moisture with depth at 21.8ft	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Ţ					0.0
	BGS	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		5GP		2.3		0.0
-24								0.0
- 26	- orange sand, 0.5' thick at 27.0ft BGS	* * * * * * * * * * * * * * * * * * *		6GP		2.3		0.0
-28								0.0
-30								0.0
-32	CL-CLAY (till), very stiff, fine grained, medium	32.40		7GP		5.0		0.0
34	plasticity, dark gray, moist SW-SAND (native), trace fine gravel, compact,	34.40						0.0
36	medium sand, well graded, brown/tan, moist	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
-38				8GP		3.7		0.0
	NOTES: MEASURING POINT ELEVATIONS MAY CHANG	E: REFER TO C	JRRENT ELEVATION TABLE			L		



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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

PROJECT NUMBER: 038443-74-02

CLIENT: PRP GROUP LOCATION: MORAINE, OH HOLE DESIGNATION: BH03-13
DATE COMPLETED: June 13, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS		DEPTH ft BGS	BOREHOLE	NUMBER	INTERVAL	REC (ft)	N' VALUE	PID (ppm)
		R & &		- SOLINO INVIN	N N	Z	82	ž	0.0
40	- black layer, chemical odor from 40.7 to 42.1ft BGS								0.0
42	BG3				9GP		2.9		637
44									0.0
46	- 1.33' black layer at 47.0ft BGS				10GP		3.4		0.0
48					1001		0.4		0.0
50									0.0
52					11GP		2.9		0.0
54									0.0
56	CL-CLAY (till), stiff, fine grained, high plasticity,		57.00 58.00		12GP		3.0		0.0
60	gray, moist SW-SAND (native), coarse gravel fragments, medium sand, well graded, brown/tan, moist		60.00						0.0
- 60	END OF BOREHOLE @ 60.0ft BGS		00.00						
62	Temporary well screened from 22.75 to 26.75ft BGS. Screen removed and backfilled on June 14, 2013.								
64	Depth: 21.75-23.75ft BGS Sudan IV test results:negative								
-66	PID Headspace (ppm): 0								
-68	Depth: 30.4-32.4ft BGS Sudan IV test results:negative PID Headspace (ppm): 0								
70	Depth: 34.4-35ft BGS Sudan IV test results:negative								
72	PID Headspace (ppm): 0								
74	Depth: 40.66-42.66ft BGS Sudan IV test results: positive PID Headspace (ppm): 637								
,0									
<u>NC</u>	DTES: MEASURING POINT ELEVATIONS MAY CHAN WATER FOUND	IGE; REF	ER TO C	JRRENT ELEVATION TABLE			***************************************	······	



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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

PROJECT NUMBER: 038443-74-02

CLIENT: PRP GROUP LOCATION: MORAINE, OH HOLE DESIGNATION: BH04-13
DATE COMPLETED: June 14, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	01	 	SAM		e
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
-2	ASPHALT SW-SAND (FILL), loose, fine to medium sand, well graded, dark brown, dry	0.25 1.30 1.60						0.4
-4	SM-SAND/SILT (FILL), compact, fine to medium sand, dark brown, dry SW-SAND (FILL), loose, fine to medium sand,	2.30 2.70		1GP		4.0		0.0
6	well graded, dark brown, dry SM-SAND/SILT (FILL), compact, fine to medium sand, dark brown, dry		BACKFILLED WITH BENTONITE					0.0
8	SW-SAND (FILL), loose, fine to medium sand, well graded, dark gray/black, dry - orange/red clay dust at 4.0ft BGS		CHIPS	2GP		3.6		0.0
10		11.00						6.3
·12	SM-SAND/SILT (FILL), compact, fine to medium sand, dark brown, dry	11.00		3GP		3.5		76.
14	- 2" thick medium to coarse sand seam, with fine gravel, loose at 14.0ft BGS	15.20						
16	SW-SAND (native), little fine gravel, fine, medium and coarse sand, loose, well graded, tan/brown, dry	13.20						3.
18				4GP		4.0		0.:
20	- Wet at 20.3ft BGS		Ţ			_		0.0
-22				5GP				0.0
24		25.00						
- 26	END OF BOREHOLE @ 25.0ft BGS Temporary well screened from 21.3 to 25.3ft							
28	BGS. Screen removed and backfilled on June 14, 2013.							
-30	Depth: 20.3-22.3ft BGS Sudan IV test results:negative PID Headspace (ppm): 0							
32								
-34								
36								
38								
	NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REWATER FOUND \slashed{V}	FER TO C	JRRENT ELEVATION TABLE		4			



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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

PROJECT NUMBER: 038443-74-02

CLIENT: PRP GROUP LOCATION: MORAINE, OH HOLE DESIGNATION: BH05-13
DATE COMPLETED: June 13, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS			BORE	HOLE	SAMPLE					
1 503			ft BGS			NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)	
2	SW-SILTY SAND (FILL), slightly compact, fine, medium and coarse sand, well graded, black-brown, dry - cobble fragments at 1.0ft BGS - red clay brick dust (slag-like material) at 3.0ft BGS					1GP		4.0		0.0	
8	- nail at 5.5ft BGS - 1.5" silt lens, with sand at 6.8ft BGS - 2" slag-like material at 7.0ft BGS				— BACKFILLED WITH BENTONITE CHIPS	2GP		3.5		0.0	
12	SM-CLAYEY SILT/SAND (FILL), trace fine gravel, compact, fine sand, dark brown, dry - fine to medium sand at 11.2ft BGS		11.00			3GP		1.5		11	
16	SW-SILTY SAND (FILL), fine, medium and coarse sand, well graded, loose, black/brown, dry		15.00	7		4GP		2.0		Q .4	
22 24	- wet at 20.0ft BGS SW-SAND (native), little to some silt, trace fine gravel, medium to coarse sand, fine sand, well graded, loose, brown, dry to wet		21.00			5GP		2.5		O .1	



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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

PROJECT NUMBER: 038443-74-02

CLIENT: PRP GROUP LOCATION: MORAINE, OH HOLE DESIGNATION: BH05-13
DATE COMPLETED: June 13, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH	BOREHOLE		1	SAME		ſ
t BGS		ft BGS		NUMBER	INTERVAL	REC (#)	'N' VALUE	PID (ppm)
26 28 30				6GP		2.8		0.0
32	CL-SILTY CLAY (TILL), trace coarse sand, cohesive, low plasticity, gray, dry	32.00		7GP		4.0		0.5
36 38	SP-SAND (native), loose, fine to medium sand,	39.20		8GP		5.0		0.4
40 42 44	poorly graded - increase in fine gravel content at 40.5ft BGS			9GP		4.0		0.0
46 48				10GP		3.7		0.1



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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

PROJECT NUMBER: 038443-74-02

CLIENT: PRP GROUP LOCATION: MORAINE, OH HOLE DESIGNATION: BH05-13
DATE COMPLETED: June 13, 2013
DRILLING METHOD: GEOPROBE

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS		DEPTH ft BGS	BOREHOLE	~		SAMI		
					NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
-52	 fine to medium sand from 51.5 to 53.0ft BGS solvent odor from 52.0 to 60.0ft BGS medium to coarse sand, with fine gravel at 53.0ft BGS 				11GP		3.7		27
-56	- dark gray staining from 55.5 to 57.0ft BGS				12GP		3.7		407
60	END OF BOREHOLE @ 60.0ft BGS		60.00						12:
-62	Temporary well screened from 21.0 to 25.0ft BGS. Screen removed and backfilled on June 14, 2013.								
64	Depth: 20-22ft BGS Sudan IV test results:negative PID Headspace (ppm): 0								
66	Depth: 31-32ft BGS Sudan IV test results:negative PID Headspace (ppm): 0.5								
68	Depth: 39.2-40ft BGS Sudan IV test results:negative PID Headspace (ppm): 0								
-70	Depth: 53-55ft BGS Sudan IV test results:positive PID Headspace (ppm): 833								
	Depth: 55-57ft BGS Sudan IV test results:negative PID Headspace (ppm): 407								
-72									
74									
<u>NC</u>	TES: MEASURING POINT ELEVATIONS MAY CHA WATER FOUND	NGE; RE	FER TO C	JRRENT ELEVATION TABL	E	<u> </u>			



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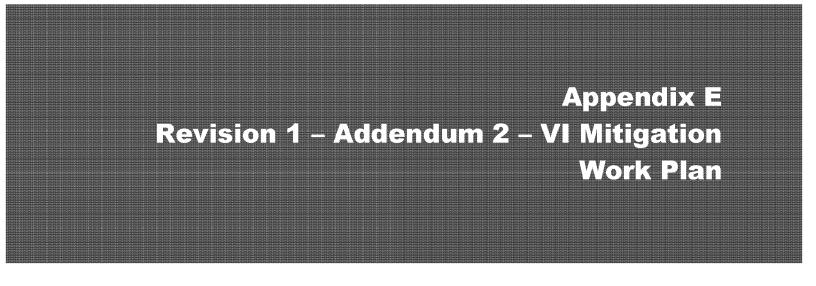
PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

PROJECT NUMBER: 038443-74-02

CLIENT: PRP GROUP LOCATION: MORAINE, OH HOLE DESIGNATION: BH06-13
DATE COMPLETED: June 13, 2013
DRILLING METHOD: GEOPROBE

FIELD PERSONNEL: J. CLOSE

DEPTH	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH	BOREHOLE		1	SAME	PLE	
ft BGS		ft BGS		NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
-2	SW-SAND (FILL), fine grained gravel, fine, medium and coarse sand, loose, well graded, brown, dry ML-SILT (FILL), very stiff, brown, dry - sand, fine gravel and red clay at 2.5ft BGS - gray at 3.0ft BGS	1.00	BACKFILLED	1GP		4.5		0.0
8		9.00	WITH BENTONITE CHIPS	2GP		4.3		0.0
· 10 · 12	SW-SILTY SAND (FILL), trace day, fine, medium and coarse sand, loose, well graded, dark brown/black, dry			3GP		2.0		0.0
14 16	- brown/tan at 16.5ft BGS							0.0
18 20	- pieces of granite fragments at 20.0ft BGS			4GP		2.0		0.0
22 24	- Wet at 21.0ft BGS			5GP		2.2		0.0
26	END OF BOREHOLE @ 26.0ft BGS	26.00				-		
30	Temporary well screened from 22.0 to 26.0ft BGS. Screen removed and backfilled on June 13, 2013. Depth:21-23ft BGS Sudan IV test results:negative PID Headspace (ppm): 0							
34 36 38								





Revision 1, Addendum 2 - VI Mitigation Work Plan

South Dayton Dump and Landfill Site Moraine, Ohio

Submitted to: US EPA Region 5 Emergency Response Branch Cincinnati, OH OSC Steve Renninger

651 Colby Drive Waterloo Ontario N2V 1C2 Canada 038443 | 62 | 01 | Report No 18 | December 2016

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1. Introduction

This addendum to the Vapor Intrusion (VI) Mitigation Work Plan (CRA, May 2013) for the South Dayton Dump and Landfill Site (Site), Moraine, Ohio is intended to update the existing VI Mitigation Work Plan to describe proposed sampling activities required to measure explosive limits in utility corridors during seasonal periods of elevated methane levels. Revision 1 of the Addendum provides an update to remove obligations of Respondents to monitor soil gas probes that contain elevated levels of contaminants that are not associated with the Site.

This addendum is intended to be used in conjunction with the VI Mitigation Work Plan and is not a stand-alone document.

2. Sampling Activities

2.1 Landfill Gas and Soil Vapor Sampling

The VI Mitigation Work Plan outlines the measurement and recording of methane levels using a portable combustible gas meter, specifically LandTec GEM 2000 or equivalent, which is capable of reporting the concentration of methane in units of percentage of the LEL of methane (i.e., 0 to 100 percent of LEL). The Work Plan did not specify an end date with regards to methane monitoring but the Respondents continued to monitor methane on a weekly basis between January 19, 2012, and April 2, 2014 in Building 15 (SIM Trainer) and between November 9, 2012 and April 2, 2014 in USEPA nested soil gas probe GP-2, in response to noted periods of elevated methane levels. During the VI mitigation conference call held on March 6, 2014, USEPA and the Respondents agreed to reduce the frequency of methane monitoring from weekly to monthly, conditional on the Respondents' submission of a plan detailing sampling activities to measure explosive limits in utility corridors during seasonal periods of elevated methane levels.

The USEPA (2005) document Guidance for Evaluating Landfill Gas Emissions from Closed or Abandoned Landfills states that warm landfill temperatures favor methane production, which may be affected by seasonal temperature fluctuations in cold climates where fill is shallow and sensitive to ambient temperatures, and that the highest methane concentrations occur in the warmer summer months. The Minnesota Pollution Control Agency (2011) document Guidelines for Monitoring for Landfill Gas at and Near Former Dumps states that methane generation can be non-existent at temperatures below 50°F. A review of methane results at GP-2 between November 2012 and November 2016 indicates that methane concentrations generally increase between June and October every year, with values exceeding 100 percent of LEL (i.e., greater than 5 percent methane by volume, in air) in the months of July, August, and September (Table 1). The increase in methane corresponds to an increase in ambient temperature throughout the summer months. On behalf of the Respondents, GHD submitted a letter to USEPA and Ohio EPA dated October 24, 2016, detailing evidence that the source of methane at GP-2 is not related to the South Dayton Dump and Landfill Site. Supporting evidence includes the consistent non-detectable levels of methane at soil gas probes along the Dryden Road Site boundary which demonstrate the lack of off-Site migration of methane; the proximity of GP-2 to the Dayton Power and Light (DP&L) Transportation Center and area former USTs; and stratigraphic conditions that do not encourage the lateral movement of subsurface soil gas along preferential pathways. The Respondents revised this addendum to

remove methane monitoring at locations which exhibit contamination that is not associated with the Site (e.g., GP-2).

Methane results for Building 15 (SIM Trainer) are presented in Table 2. Prior to the installation of the sub-slab depressurization system (SSDS) on January 9, 2014, methane concentrations were consistently greater than 10 percent of the LEL (0.5 percent methane) at sub-slab soil vapor Probe C (i.e. SS-15-C). The greatest methane concentrations, approximately 40-60 percent of the LEL (2 to 3 percent methane), were recorded during the warmer months of July, August, September, and October in 2012 and 2013. Respondents installed a permanent explosive gas monitor in Building 15 (SIM Trainer) on January 31, 2013 for continuous indoor air monitoring in addition to the weekly methane monitoring events. Since the SSDS system has been in operation, methane values have decreased and consistently ranged from 1 5 percent of the LEL (0.05 to 0.25 percent methane).

From 2012 to 2016, the Respondents conducted methane monitoring from soil gas probe GP-2 on a four tiered sampling system based on information provided in the USEPA (2005) and Minnesota Pollution Control Agency (2011) documents, and historical methane monitoring results completed at GP-2. Based on the apparent lack of connection between the Site and GP-2, Respondents will cease routine methane monitoring at GP-2 following USEPA approval of this Revision 1 to Addendum 2.

Methane monitoring will be conducted from sub-slab soil vapor probes (SSSVPs) at Building 15 (SIM Trainer) on a three-tiered sampling system based on information provided in the USEPA (2005) and Minnesota Pollution Control Agency (2011) documents, and historical methane results for Building 15 (SIM Trainer). Tier 1 sampling will be conducted monthly during periods where methane values in the SSSVPs are less than 10 percent of the LEL (0.5 percent methane by volume in air). Tier 2 sampling will be collected biweekly when methane values in the SSSVPs are between 10 and 100 percent of the LEL (0.5 to 5 percent methane) and Tier 3 sampling will be completed when methane values in the SSSVPs are greater than 100 percent of the LEL (5 percent methane). The detection of methane in any of the SSSVPs at values greater than 10 percent of the LEL (0.5 percent methane) will increase the monitoring plan frequency from Tier 1 to Tier 2 status (monthly to biweekly sampling). When methane values in all of the SSSVPs decrease to less than 10 percent of the LEL (0.5 percent methane), methane monitoring frequency will decrease from Tier 2 biweekly sampling to Tier 1 monthly sampling. Similarly, the detection of methane in any of the SSSVPs at values greater than 100 percent of the LEL (5 percent methane) will increase the monitoring plan frequency to Tier 3 status (weekly sampling). Weekly sampling will continue until methane levels in all SSSVPs are reduced to less than 100 percent of the LEL (5 percent methane). If the Building 15 SSSVP methane levels remain less than 10 percent of the LEL (0.5 percent methane) for three consecutive months, the monitoring frequency will decrease from Tier 1 monthly sampling to Tier 4 semi-annual sampling (i.e., in January and July). If the Building 15 SSSVP Tier 4 semi-annual methane levels remain less than 10 percent of the LEL (0.5 percent methane) for 2 calendar years (i.e., sample rounds), methane monitoring frequency will decrease from Tier 4 semi-annual sampling to Tier 5 annual sampling. The five tiered sampling plan for Building 15 (SIM Trainer) sub-slab soil vapor probes is outlined in Table 2.1.

Table 2.1 - Five-Tiered Sampling Plan for Sub-slab Soil Vapor Monitoring at Building 15 (SIM Trainer)

	Tier 1	Tier 2	Tier 3	Tier 4	Tier 5
Triggering Condition	Methane levels less than 10 percent of the LEL (0.5 percent methane) in all SSSVPs	Methane levels between 10 and 100 percent of the LEL (0.5 to 5 percent methane) in any SSSVP.	Methane levels greater than 100 percent of the LEL (5 percent methane) in any SSSVP	3 consecutive months of methane levels less than 10 percent of the LEL (0.5 percent methane)	2 years of methane levels less than 10 percent of the LEL (0.5 percent methane)
Action	Monthly sampling	Biweekly sampling	Weekly sampling	Semi-annual sampling	Annual sampling
Exit Condition	If methane levels are less than 10 percent of the LEL (0.5 percent methane) in all SSSVPs for 3 consecutive months, decrease frequency to semi-annual monitoring (Tier 4)	Methane levels less than 10 percent of the LEL in all SSSVPs (0.5 percent methane). Resume Tier 1 sampling.	Methane levels less than 100 percent of the LEL in all SSSVPs (5 percent methane) Resume Tier 2 sampling.	If methane levels are less than 10 percent of the LEL (0.5 percent methane) for 2 years (i.e., 4 sample rounds), decrease frequency to annual monitoring (Tier 5)	Reevaluate the potential for landfill gas migration and VI during the Remedial Design/Remedial Action. End sampling following implementation of the Remedial Action

The Respondents will reevaluate the potential for landfill gas migration and vapor intrusion during the Remedial Design/Remedial Action, and additional actions will be taken if required.

2.1.1 Soil Vapor Sampling in Utility Corridors

Respondents obtained and reviewed buried utility information provided by Ohio Utilities Protection Services (OUPS) in order to examine the possibility of preferential gas migration pathways to GP-2. The location of buried utilities were summarized in the GHD memorandum to USEPA and Ohio EPA dated September 21, 2016.

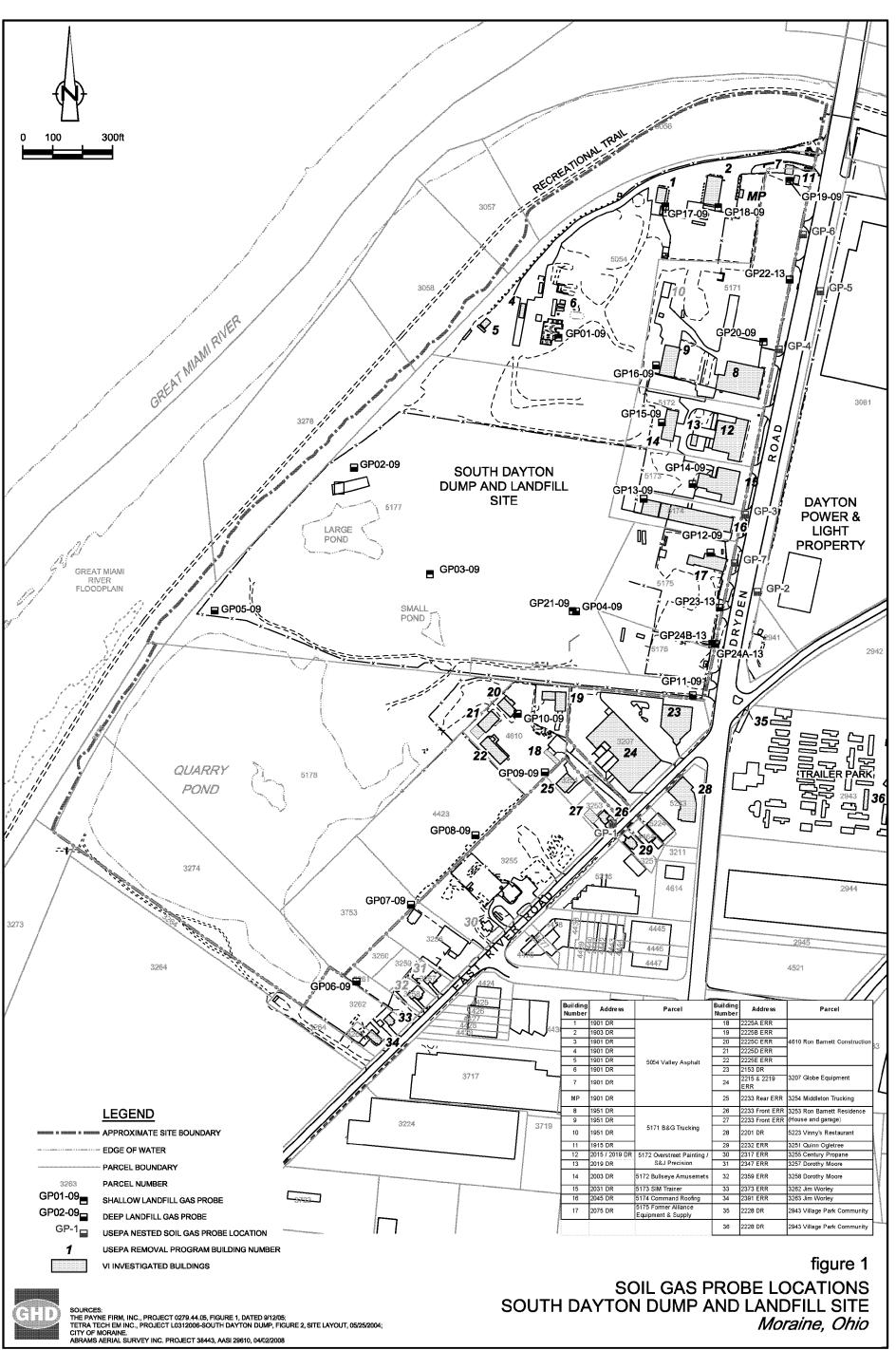
In September 2016, GHD completed a visual inspection and methane monitoring at three pairs of storm water inlets, four manholes, and one sanitary manhole located along Dryden Road in the area of GP-2. From the visual inspection, GHD determined that storm water flows from east to west across Dryden Road, and then north.

On September 28, 2016 and October 7, 2016, GHD completed methane monitoring at the storm water inlets and manholes in the vicinity of GP-2; methane was not detected at these locations. After the installation of the SSDS on January 9, 2014, at Building 15 (SIM Trainer), methane levels in SSSVPs have been consistently measured between 0 to 10 percent of the LEL (0 to 0.5 percent methane). The Respondents propose that results of methane monitoring from Building 15 (SIM Trainer) SSSVPs SS-15-A, SS-15-B, and SS-15-C be used as a screening tool to determine when

additional methane monitoring will be completed at nearby soil gas probes. Any detection of methane at any Building 15 (SIM Trainer) SSSVPs at concentrations greater than 10 percent of the LEL (0.5 percent methane) will require an immediate sampling round consisting of adjacent USEPA nested soil gas probe GP-3 and on Site landfill gas probes GP14-09 and GP15-09, henceforth referred to as Building 15 area probes. All Building 15 area probes where methane values are greater than 10 percent of the LEL (0.5 percent methane) will then require biweekly sampling until methane values are less than 10 percent of the LEL (0.5 percent methane). Weekly sampling will be completed at any Building 15 area probe where methane values are greater than 100 percent of the LEL (5 percent methane) and detection of methane at levels greater than 100 percent of the LEL (5 percent methane) for two consecutive rounds will result in soil gas screening and/or sampling of utility corridors adjacent to the probe(s) in exceedance (see below for sampling techniques). Further action will not be required at any Building 15 area probes where methane values are less than 10 percent of the LEL (0.5 percent methane). Building 15 (SIM Trainer) SSSVPs will continue to be sampled for methane in accordance with the criteria outlined in Table 2.1.

Once the conditions for additional methane monitoring in the adjacent utility corridors have been met (described above), the Respondents propose either of the following methods be used for utility corridor sampling along the Site boundary. The first method requires soil vapor monitoring within sewers and the associated manholes, as discussed in the Wisconsin Department of Natural Resources Guidance for Documenting the Investigation of Utility Corridors (2013). Soil vapor sampling within manholes and sewers along the Site boundary will be conducted by lowering a portable combustible gas analyzer into the manhole/sewer. In the event where GHD field staff is unable to access the manhole/sewer, they will fill a Tedlar bag using a lung sampler with a long probe, which will then be field screened for methane. The second method involves installation of soil gas probes within or near identified utility corridors. This option would be used when it was not possible to access the utility via a manhole or other means of access. GHD will install soil gas probes in the bedding material surrounding the underground utility(ies) located along the Site boundary, via hand digging. Weekly monitoring will be conducted at the newly installed soil gas probe locations to determine when conditions have stabilized and equilibrium has been re-established prior to completion of methane monitoring. Soil gas sampling from the newly installed soil gas probes will be conducted as outlined in the GHD Field Sampling Plan (GHD, 2016).

The detection of methane at levels greater than 100 percent of the LEL (5 percent methane) from sampled utility corridors along the Site boundary will require the Respondents to pursue further remedial action in order to lower Site related methane levels to below the LEL. In the event that Respondents measure methane levels greater than 100 percent of the LEL at soil gas probes along the Site boundary, Respondents will collect methane measurements from soil gas probes located along the east side of Dryden Road (i.e., GP-2 and/or GP-5) as a screening and evaluation tool to determine follow-up actions.



GP-2 Field Monitoring Values South Dayton Dump and Landfill Site Moraine, Ohio

GP-2 (12) without filter CP-2 (16) with filter CP-2 (17) with filter CP-2 (16) with filter CP-2 (17) with filter CP-2 (17) with filter CP-2 (17) with filter CP-2 (17) with filter CP-2 (18) with filter CP-2 (18) with filter CP-2 (17) with filter CP-2 (18) with filt	Sample Location:	Date:	Time	PID (ppm)	O ₂ (%)	CO ₂ (%)	CH ₄ ^[2] (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)	Water Levels (ft BTOR)
CP-2 (16) without filter 11/15/2012	1 ' '		13:54									
GP2 (16) with filter GP2 (17) with filter GP2 (16) with filter GP2 (17) with filter GP2 (16) with filter GP2 (17) with filter GP2 (18) with filter GP2 (18) with filter GP2 (19) with filter GP2 (18) with filter GP2 (19)		11/9/2012							30s - 40s	none		
CP-2 (127) without filter CP-2 (16) with filter CP-2 (16) with filter CP-2 (17) without filter CP-2 (17) without filter CP-2 (18) with filter CP-2 (19) with fil		11/0/2012							555 155	110110		
CP-2 (127) with filter 11/15/2012 15.09 0.0 1.0 11.8 0.0 0 0.0 30s - 40s none												
CP-2 (16) without filter 11/19/2012 15/09 0.0 0.1 0.1 11/18 0.0 0 0 0.0	' '							-				
CP-2 (16) with filter	1 ` ′	11/15/2012						-	30s - 40s	none		
GP-2 (12) without filter 11/20/2012 14:35 0.0 2.2 11.3 0.0 0 0 50s Trace GP-2 (16) without filter 11/20/2012 0.0 0.8 11.9 0.0 0 0 0 0 0 0 0 0	1 ' '							-				
CP-2 (12) with filter 11/20/2012												
CP-2 (15) with filter CP-2 (16) with filter CP-2 (16) with filter CP-2 (17) with filter CP-2 (17) with filter CP-2 (17) without filter CP-2 (17) without filter CP-2 (18) with filter CP-2 (18) with filter CP-2 (18) with filter CP-2 (18) with filter CP-2 (19) with filter	1 ` ′		14.55									
GP-2 (12) with filter	1 ` ′	11/20/2012	14:40						50s	Trace		
GP-2 (12) with filter GP-2 (12) with filter GP-2 (16) without filter GP-2 (16) without filter GP-2 (16) without filter GP-2 (17) with filter GP-2 (18) without filter GP-2 (19) without filter GP-2 (16) without filter GP-2 (19) with filter GP-2 (16) without filter GP-2 (17) with filter GP-2 (18) with filter GP-2 (18) without filter GP-2 (19) with filter GP-2 (1	1 ' '											
CP-2 (12) with filter 11/29/2012 13:58 0.0 2.1 12.1 0.0 0 0 40s - 50s none	` /		13:53									
GP-2 (16) with ultitlet	1 ` ′	11/00/0010							10 50			
GP-2 (12) without filter 12/4/2012 16:03 0.0 6.6 9.6 0.0 0 0 0 0 0 0 0 0	GP-2 (16') without filter	11/29/2012	13:58	0.0	2.1	12.1	0.0	0	40s - 50s	none		
GP-2 (12) with filter GP-2 (16) without filter GP-2 (12) with filter GP-2 (16) without filter GP-2 (16) without filter GP-2 (12) with filter GP-2 (12) with filter GP-2 (13) without filter GP-2 (12) with filter GP-2 (13) without filter GP-2 (16) with filter GP-2 (16) with filter GP-2 (17) with filter GP-2 (18) without filter GP-2 (18) without filter GP-2 (19) with filter GP-2 (19) with filter GP-2 (19) with filter GP-2 (16) with filter GP-2 (16) with filter GP-2 (16) with filter GP-2 (19) without filter GP-2 (19) without filter GP-2 (19) with filter GP-2 (16) with filter GP-2 (19) with filter GP-2 (12) with fi	GP-2 (16') with filter		13:58	0.0	2.0	11.9	0.0	0				
GP-2 (16) without filter 12/4/2012 16:08 6.1 10.3 0.0 0 0 0 0 0	GP-2 (12') without filter		16:03	0.0	6.6	9.6	0.0	0				
GP-2 (16) with filter GP-2 (16) with filter GP-2 (16) with filter GP-2 (16) with filter GP-2 (17) without filter GP-2 (17) without filter GP-2 (17) without filter GP-2 (16) with filter GP-2 (17) without filter GP-2 (18) without filter GP-2 (16) without filter GP-2 (16) without filter GP-2 (16) without filter GP-2 (18) without filter GP-2 (18) without filter GP-2 (19) with filter GP-2 (GP-2 (12') with filter	12/4/2012		0.0	6.7		0.0		50s	, ,		
GP-2 (12') without filter 12/13/2012 13:44 0.0 6.6 0.7 0.0 0 0.0	1 ` ′	12/4/2012	16:08						""	inches)		
GP-2 (12') with filter 12/13/2012												
GP-2 (16) without filter GP-2 (16) with filter GP-2 (17) without filter GP-2 (12) without filter GP-2 (12) with filter GP-2 (18) without filter GP-2 (18) without filter GP-2 (16) without filter GP-2 (16) without filter GP-2 (16) without filter GP-2 (16) without filter GP-2 (17) with filter GP-2 (18) with filter GP-2 (18) with filter GP-2 (18) with filter GP-2 (19) with filter GP-2 (19) with filter GP-2 (19) without filter GP-2 (19) with filter GP-2 (19) without filter GP-2 (19) with filter GP-2	1 ` ′							-	40s	none		
GP-2 (15') with filter	1 ` ′	12/13/2012										
GP-2 (12) with filter 12/18/2012 13:30	1 ' '							_				
GP-2 (12) with filter GP-2 (16) without filter GP-2 (17) without filter GP-2 (17) without filter GP-2 (19) with filter GP-2 (19) without filter GP-2 (19) without filter GP-2 (11) without filter GP-2 (11) without filter GP-2 (11) with filter GP-2 (12) with filter GP-2 (12) with filter GP-2 (12) with filter GP-2 (16) without filter GP-2 (16) without filter GP-2 (16) without filter GP-2 (11) without filter GP-2 (12) without filter GP-2 (16) without filter GP-2 (12) without filter GP-2 (16) without filter GP-2 (17) without filter GP-2 (18) with filter GP-2 (19) with filter GP-2 (19) with filter GP-2 (10) with filter GP-2 (10) with filter GP-2 (10) with filter GP-2 (10) with filter GP-2 (12) without filter GP-2 (12)												
GP-2 (16') without filter GP-2 (16') with filter GP-2 (12') without filter I/24/2013 I5:34 0.0 19.9 2.6 0.0	1 ' '							-				
GP-2 (16) with filter	1 ' '	12/18/2012						•	40s	none		
GP-2 (12) without filter 1/24/2013 15:34 0.0 19.9 2.6 0.0	. , ,											
GP-2 (12) with filter GP-2 (16) without filter GP-2 (16) without filter GP-2 (17) with filter GP-2 (19) with filter GP-2 (110) with filter GP-2 (
GP-2 (16) without filter 15:40 0.0 15:3 7.7 0.0	1 ` ′											
GP-2 (16') with filter 15:40 0.0 16.9 1.6 0.0 0.0 0.0		1/24/2013							20s	none		
GP-2 (12') with filter GP-2 (16') without filter GP-2 (16') without filter GP-2 (16') without filter GP-2 (12') without filter GP-2 (12') without filter GP-2 (12') without filter GP-2 (12') with filter GP-2 (16') with filter GP-2 (16') with filter GP-2 (16') without filter GP-2 (16') without filter GP-2 (12') without filter CP-2 (12') without filter CP-2 (12') without filter CP-2 (12') without filter CP-2 (12') with filter	1 ` ′											
GP-2 (16) without filter 1/31/2013 13:55 0.0 16.8 5.0 0.0 0.0 0.0 10s - 20s 10s - 20s - 20s - 20s 10s - 20s	GP-2 (12') without filter		13:50	0.0	17.5	5.0	0.0	0.0				
GP-2 (16') without filter 13:55 0.0 16.8 5.0 0.0 0.0 0.0	GP-2 (12') with filter	1/31/2013	13:50	0.0	17.1	4.2	0.0	0.0	10e - 20e	none		
GP-2 (12') without filter GP-2 (12') with filter GP-2 (12') with filter GP-2 (16') without filter GP-2 (16') without filter GP-2 (16') without filter GP-2 (17') without filter GP-2 (12') with filter GP-2 (12') with filter GP-2 (12') with filter GP-2 (12') with filter 12:30 0.1 9.2 8.8 0.0 0.0 GP-2 (12') with filter 2/12/2013 12:30 0.1 9.7 8.4 0.0 0.0 30s - 40s none	GP-2 (16') without filter	1/31/2013		0.0					103 - 203	none		
GP-2 (12') with filter 2/7/2013 15:14 0.0 16.0 3.5 0.0 0.0 0.0 20s - 50s none GP-2 (16') without filter 15:17 0.0 15.3 4.5 0.0 0.0 GP-2 (12') without filter 12:30 0.1 9.2 8.8 0.0 0.0 GP-2 (12') with filter 2/12/2013 12:30 0.1 9.7 8.4 0.0 0.0 3.0s - 40s none 15:14 0.0 16.0 3.5 0.0												
GP-2 (16) without filter GP-2 (16) with filter 15:17 0.0 15.0 6.4 0.0 0.0 GP-2 (12) with filter 12:30 0.1 9.2 8.8 0.0 0.0 GP-2 (12) with filter 2/12/2013 12:30 0.1 9.7 8.4 0.0 0.0 30s - 40s none	1 ' '											
GP-2 (16') without filter 15:17	· ' '	2/7/2013							20s - 50s	none		
GP-2 (12) without filter 12:30 0.1 9.2 8.8 0.0 0.0 GP-2 (12) with filter 2/12/2013 12:30 0.1 9.7 8.4 0.0 0.0 30s - 40s none	1 ' '											
GP-2 (12') with filter 2/12/2013 12:30 0.1 9.7 8.4 0.0 0.0 30s - 40s none									-			
1 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1 ` ′											
101-2 (10) with out mitor 1 12.70 0.0 1.0 0.1 0.0 0.0		2/12/2013							30s - 40s	none		
GP-2 (16') with filter 12:45 0.0 6.9 8.2 0.0 0.0	l ' '									1		

GP-2 Field Monitoring Values South Dayton Dump and Landfill Site Moraine, Ohio

Sample Location:	Date:	Time	PID (ppm)	O ₂ (%)	CO ₂ (%)	CH ₄ ^[2] (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)	Water Levels (ft BTOR)
GP-2 (12') without filter		13:45	0.0	8.8	8.5	0.0	0.0				
GP-2 (12') with filter	2/21/2013	13:45	0.0	9.1	8.0	0.0	0.0	20s	Trace		
GP-2 (16') without filter	2/2 1/2013	13:50	0.0	6.9	7.0	0.0	0.0	205	Hace		
GP-2 (16') with filter		13:50	0.0	7.0	6.7	0.0	0.0				
GP-2 (12') without filter		12:45	0.0	15.8	4.9	0.0	0.0				
GP-2 (12') with filter	0/00/0040	12:45	0.0	15.8	5.1	0.0	0.0	00 40	4		
GP-2 (16') without filter	2/28/2013	12:49	0.0	13.6	6.2	0.0	0.0	30s - 40s	~1 inch		
GP-2 (16') with filter		12:49	0.0	13.5	6.2	0.0	0.0				
GP-2	3/7/2013	Inac	cessible	due to sn	ow cover fro	om road plow	activity	30s	None		
GP-2 (12') without filter		13:45	0.0	16.2	4.3	0.0	0.0				
GP-2 (12') with filter	0/44/0040	13:45	0.0	16.1	4.4	0.0	0.0	00 40			
GP-2 (16') without filter	3/14/2013	13:53	0.0	13.9	6.1	0.0	0.0	20s - 40s	None		
GP-2 (16') with filter		13:53	0.0	13.9	6.2	0.0	0.0				
GP-2 (12') without filter		12:20	0.0	15.9	3.8	0.0	0.0				
GP-2 (12') with filter	0/04/0040	12:20	0.0	15.9	3.9	0.0	0.0		_		
GP-2 (16') without filter	3/21/2013	12:26	0.0	14.2	5.7	0.0	0.0	20s - 30s	Trace		
GP-2 (16') with filter		12:26	0.0	14.1	5.9	0.0	0.0				
GP-2 (12') without filter		12:10	0.0	14.6	6.1	0.0	0.0				
GP-2 (12') with filter		12:10	0.0	14.4	6.3	0.0	0.0	30s - 40s			
GP-2 (16') without filter	3/28/2013	12:15	0.0	12.9	7.4	0.0	0.0		None		
GP-2 (16') with filter		12:15	0.0	12.9	7.5	0.0	0.0				
GP-2 (12') without filter		14:04	0.0	15.7	5.2	0.0	0.0	30s - 50s	None		
GP-2 (12') with filter		14:04	0.0	15.6	5.1	0.0	0.0				
GP-2 (16') without filter	4/4/2013	14:11	0.0	13.8	6.0	0.0	0.0				
GP-2 (16') with filter		14:11	0.0	13.8	6.1	0.0	0.0				
GP-2 (12') without filter		13:56	0.0	13.9	5.2	0.0	0.0				
GP-2 (12') with filter		13:56	0.0	13.8	5.5	0.0	0.0	50s - 80s	None		
GP-2 (16') without filter	4/9/2013	14:03	0.0	12.2	5.9	0.0	0.0				
GP-2 (16') with filter		14:03	0.0	12.2	6.0	0.0	0.0				
GP-2 (12') without filter		13:48	0.0	14.7	6.1	0.0	0.0				
GP-2 (12') with filter		13:48	0.0	14.7	6.0	0.0	0.0		None		
GP-2 (16') without filter	4/18/2013	13:54	0.0	13.2	7.4	0.0	0.0	60s - 80s			
GP-2 (16') with filter		13:54	0.0	13.3	7.2	0.0	0.0				
GP-2 (12') without filter		14:45	0.0	16.3	3.8	0.0	0.0		+		
GP-2 (12') with filter		14:45	0.0	16.8	0.8	0.0	0.0				
GP-2 (16') without filter	4/23/2013	14:48	0.0	15.9	4.2	0.0	0.0	50s - 60s	None		
GP-2 (16') with filter	I I	14:48	0.0	16.3	2.9	0.0	0.0				
GP-2 (12') without filter		14:45	0.0	16.8	3.4	0.0	0.0				
GP-2 (12') with filter	4/30/2013	14:45	0.0	17.0	0.9	0.0	0.0				
GP-2 (16') without filter		14:50	0.0	16.3	3.9	0.0	0.0	40s - 70s	None		
GP-2 (16') with filter		14:50	0.0	16.7	1.6	0.0	0.0				
GP-2 (12') without filter		14:41	0.0	14.8	3.3	0.0	0.0				
GP-2 (12') with filter		14:41	0.0	14.9	0.9	0.0	0.0				
GP-2 (16') without filter	5/9/2013	14:45	0.0	14.5	3.8	0.0	0.0	50s - 70s	None		
GP-2 (16') with filter		14:45	0.0	14.1	1.5	0.0	0.0				
GF-2 (10) Willi lillel		14.40	0.0	14.5	1.0	0.0	0.0	I			

GP-2 Field Monitoring Values South Dayton Dump and Landfill Site Moraine, Ohio

Sample Location:	Date:	Time	PID (ppm)	O ₂ (%)	CO ₂ (%)	CH ₄ ^[2] (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)	Water Levels (ft BTOR)
GP-2 (12') without filter		13:25	0.0	15.3	4.1	0.0	0.0		•	•	
GP-2 (12') with filter	5/16/2013	13:25	0.0	15.3	4.0	0.0	0.0	40s - 80s	~1 inch		
GP-2 (16') without filter		13:32	0.0	13.9	4.8	0.0	0.0	405-005	~1 111011		
GP-2 (16') with filter		13:32	0.0	13.9	4.8	0.0	0.0				
GP-2 (12') without filter		15:29	0.0	13.7	3.8	0.0	0.0				
GP-2 (12') with filter	5/21/2013	15:29	0.0	13.8	3.2	0.0	0.0	40s - 80s	~0.2 inch		
GP-2 (16') without filter	3/21/2013	15:32	0.0	12.7	4.5	0.0	0.0	1 403 - 003	0.2 11011		
GP-2 (16') with filter		15:32	0.0	12.8	3.0	0.0	0.0				
GP-2 (12') without filter		13:20	0.0	15.8	3.8	0.0	0.0				
GP-2 (12') with filter	5/30/2013	13:20	0.0	15.8	3.9	0.0	0.0	50s - 80s	~1.3 inch		
GP-2 (16') without filter	5,55,25,6	13:25	0.0	13.1	5.1	0.0	0.0	000 000	1.0		
GP-2 (16') with filter		13:25	0.0	13.0	5.3	0.0	0.0				
GP-2 (12') without filter		14:50	0.0	16.3	4.6	0.0	0.0				
GP-2 (12') with filter	6/6/2013	14:50	0.0	16.2	4.9	0.0	0.0	60s	0.25 inch		
GP-2 (16') without filter		15:00	0.0	14.7	6.0	0.0	0.0		0.20		
GP-2 (16') with filter		15:00	0.0	14.7	6.2	0.0	0.0				
GP-2 (12') without filter		16:05	0.0	8.2	5.4	0.0	0.0				
GP-2 (12') with filter	6/13/2013	16:05	0.0	7.5	5.4	0.0	0.0	60s - 80s	1.55 inch		
GP-2 (16') without filter		16:10		5.2	6.6	0.0	0.0				
GP-2 (16') with filter		16:10		5.1	6.4	0.0	0.0				
GP-2 (12') without filter			0.0	8.0	6.1	0.0	0.0		None		
GP-2 (12') with filter	6/20/2013		0.0	8.3	5.9	0.0	0.0	50s - 80s			
GP-2 (16') without filter				5.3 5.6	6.5	0.0 0.0	0.0				
GP-2 (16') with filter GP-2 (12') without filter		14:06	0.6	15.9	6.0 1.5	0.0	0.0				
GP-2 (12') with filter		14:06	0.6	16.3	0.2	0.0	0.0	70s - 80s	Trace		
GP-2 (12) with filter	6/27/2013	14:00	43.6	3.7	2.6	1.6	30				
GP-2 (16') with filter		14:11	43.6	2.1	3.6	1.0	20				
GP-2 (12') without filter		13:18	23.5	6.9	4.9	1.4	28				
GP-2 (12') with filter		13:18	23.5	7.5	3.4	0.7	13	60s - 80s	Trace		
GP-2 (16') without filter	7/3/2013	13:10	59.6	1.9	7.1	5.8	>100				
GP-2 (16') with filter		13:22	59.6	1.6	6.9	1.8	36				
GP-2 (12') without filter		14:45	40.4	4.0	6.5	6.5	>100				
GP-2 (12') with filter		14:45	40.4	4.0	4.9	3.4	68				
GP-2 (16') without filter	7/11/2013	14:51	55.6	4.6	6.2	11.2	>100	60s - 70s	None		
GP-2 (16') with filter		14:51	55.6	3.9	5.0	2.2	44				
GP-2 (12') without filter		14:35	20.4	17.7	1.2	0.5	10				
GP-2 (12') with filter		14:35	20.4	17.7	1.0	0.2	5				
GP-2 (16') without filter	7/18/2013	14:41	44.3	1.9	7.4	5.1	>100	70s - 90s	None		
GP-2 (16') with filter		14:41	44.3	4.7	1.8	1.8	36				
GP-2 (12') without filter	7/25/2013 14 14 14	14:15	38.7	4.8	6.5	3.8	75				†
GP-2 (12') with filter		14:15	38.7	4.7	6.1	3.0	60	50. 70	,,		[]
GP-2 (16') without filter		14:20	48.3	4.4	7.9	4.0	80	50s - 70s	None		[]
GP-2 (16') with filter		14:20	48.3	4.2	8.3	3.3	65				[
GP-2 (12') without filter		14:00	83.5	8.1	5.3	1.4	28				
GP-2 (12') with filter	0/4/0040	14:00	83.5	6.2	4.9	1.1	21		,,		1
GP-2 (16') without filter	8/1/2013	14:05	89.8	4.1	7.3	2.8	55	60s - 80s	None		1
GP-2 (16') with filter		14:05	89.8	3.1	7.2	1.8	35				[]

GP-2 Field Monitoring Values South Dayton Dump and Landfill Site Moraine, Ohio

Sample Location:	Date:	Time	PID (ppm)	O ₂ (%)	CO ₂ (%)	CH ₄ ^[2] (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)	Water Levels (ft BTOR)
GP-2 (12') without filter		14:06	10.5	3.9	7.6	1.3	27				
GP-2 (12') with filter	8/6/2013	14:06	10.5	3.7	5.9	1.0	21	60s - 80s	Nama		
GP-2 (16') without filter	0/0/2013	14:10	31.6	4.3	7.4	2.5	51	008 - 008	None		
GP-2 (16') with filter		14:10	31.6	3.1	6.1	1.7	34				
GP-2 (12') without filter		13:35	16.6	7.9	3.1	2.0	40				
GP-2 (12') with filter	0/45/2042	13:35	16.6	7.7	3.3	1.6	32	10- 70-	N		
GP-2 (16') without filter	8/15/2013	13:40	20.6	1.5	6.2	2.2	44	40s - 70s	None		
GP-2 (16') with filter		13:40	20.6	1.4	7.5	2.0	40				
GP-2 (12') without filter		14:41	33.9	3.2	8.0	2.3	47				
GP-2 (12') with filter	0/00/0040	14:41	33.9	3.2	8.4	2.0	41		Trace		
GP-2 (16') without filter	8/22/2013	14:45	55.0	1.8	8.5	4.3	87	60s - 80s	(0.06 in.)		
GP-2 (16') with filter		14:45	55.0	1.6	8.3	2.0	41		, ,		
GP-2 (12') without filter		14:21	22.8	2.5	8.4	3.7	74				
GP-2 (12') with filter	0.07/0040	14:21	22.8	2.6	8.9	1.9	39		l		
GP-2 (16') without filter	8/27/2013	14:26	39.5	2.3	8.7	7.9	>100	70s - 80s	None		
GP-2 (16') with filter		14:26	39.5	2.2	9.0	6.1	>100				
GP-2 (12') without filter		-	31.3	2.2	8.7	7.0	>100				
GP-2 (12') with filter	0/5/0040	-	31.3	2.3	6.9	3.0	58	50s - 80s	None		
GP-2 (16') without filter	9/5/2013	l <u>-</u>	39.0	3.1	8.3	8.4	>100				
GP-2 (16') with filter		-	39.0	3.7	6.5	2.8	56				
GP-2	9/12/2013					r/flood condition		60s - 80s	0.29 inches		
GP-2 (12') without filter	57.12.207.5		24.7	2.6	8.7	3.2	65	1000	0.20		
GP-2 (12') with filter			24.7	2.1	8.1	1.8	34	60s - 80s	0.6 inches	1009 - 1013	
GP-2 (16') without filter	9/20/2013		40.4	1.4	9.6	7.0	>100				
GP-2 (16') with filter			40.4	1.5	8.9	2.1	42				
GP-2 (12') without filter		14:27	55.7	1.8	9.6	3.6	71				
GP-2 (12') with filter		14:27	55.7	1.9	9.2	3.3	67	40s - 70s	None	1016 - 1018	
GP-2 (16') without filter	9/24/2013	14:33	68.4	1.5	10.0	4.3	86				
GP-2 (16') with filter		14:33	68.4	1.6	10.6	3.9	78				
GP-2 (12') without filter		13:27	0.9	6.8	7.2	1.3	25				
GP-2 (12') with filter		13:27	0.9	6.9	5.8	1.1	17	60s - 70s			
GP-2 (16') without filter	10/3/2013	13:35	53.6	3.6	8.9	2.2	44		0.27 inches	1015 - 1022	
GP-2 (16') with filter		13:35	53.6	3.3	7.5	1.4	27				
GP-2 (12') without filter		13:41	18.6	0.7	10.3	1.9	38				
GP-2 (12') with filter		13:41	18.6	0.5	10.2	1.3	27		None	1020 - 1022	
GP-2 (16') without filter	10/10/2013	13:47	22.6	0.9	10.3	1.9	39	40s - 70s			
GP-2 (16') with filter		13:47	22.6	1.7	9.0	1.2	25				
GP-2 (12') without filter		14:46	22.8	1.2	10.5	1.4	28				MW-7: 18.56
GP-2 (12') with filter	10/17/2013 14	14:46	22.8	7.5	6.8	0.8	16				MW-8: 18.70
GP-2 (16') without filter		14:50	23.1	1.3	10.6	1.5	29	40s - 50s	0.1 inches	1011 - 1014	MW-11: 20.31
GP-2 (16') with filter		14:50	23.1	1.5	10.1	1.2	23				MW-12: 20.39
GP-2 (12') without filter	10/24/2013	13:42	0.0	1.5	10.9	0.0	0				MW-7: 18:69
GP-2 (12') with filter		13:42	0.0	1.6	10.2	0.0	ő	30s - 40s	Trace	l	MW-8: 18.83
GP-2 (16') without filter		13:47	5.6	4.6	9.6	0.0	0		(0.02 inches)	1015 - 1025	MW-11: 20.66
GP-2 (16') with filter		13:47	5.6	4.9	8.6	0.0	0				MW-12: 20.44
GP-2 (12') without filter		15:07	0.0	6.3	8.2	0.0	0				MW-7: 18.71
GP-2 (12') with filter		15:07	0.0	6.4	7.3	0.0	0				MW-8: 18.87
GP-2 (16') without filter	10/31/2013	15:13	1.1	6.4	8.3	0.0	0	60s	1.25 inches	1000 - 1010	MW-11: 20.69
10. = (10) without hitel		15:13	1.1	6.7	7.5	0.0	0				MW-12: 20.47

GP-2 Field Monitoring Values South Dayton Dump and Landfill Site Moraine, Ohio

Table 1

Sample Location:	Date:	Time	PID (ppm)	O ₂ (%)	CO ₂ (%)	CH ₄ ^[2] (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)	Water Levels (ft BTOR)
GP-2 (12') without filter		13:45	0.0	4.6	9.5	0.0	0				MW-7: 18.43
GP-2 (12') with filter	11/7/2013	13:45	0.0	4.1	7.9	0.0	0	40s	Trace	1020 - 1025	MW-8: 18.57
GP-2 (16') without filter	11/1/2013	13:51	0.0	2.6	10.7	0.0	0	1 403	(0.04 inches)	1020 - 1023	MW-11: 20.28
GP-2 (16') with filter		13:51	0.0	2.6	10.2	0.0	0				MW-12: 20.13
GP-2 (12') without filter		13:32	0.0	5.8	9.5	0.0	0				MW-7: 18.28
GP-2 (12') with filter	11/12/2013	13:32	0.0	6.2	8.6	0.0	0	20s - 30s	Trace	1030 - 1036	MW-8: 18.37
GP-2 (16') without filter	11/12/2013	13:38	0.0	5.4	9.6	0.0	0	208 - 308	(0.05 inches)	1030 - 1036	MW-11: 20.02
GP-2 (16') with filter		13:38	0.0	5.3	8.6	0.0	0				MW-12: 19.86
GP-2 (12') without filter		14:10	0.0	4.5	10.1	0.0	0				MW-7: 18.27
GP-2 (12') with filter	14/20/2012	14:10	0.0	5.0	8.3	0.0	0	20- 40-	NI	4000 4000	MW-8: 18.40
GP-2 (16') without filter	11/20/2013	14:15	0.0	3.5	10.4	0.0	0	20s - 40s	None	1023 - 1026	MW-11: 20.24
GP-2 (16') with filter		14:15	0.0	4.0	9.8	0.0	0				MW-12: 20.02
GP-2 (12') without filter		14:35	0.0	3.4	10.4	0.1	1				MW-7: 18.10
GP-2 (12') with filter	11/00/0010	14:35	0.0	3.4	9.5	0.0	0		Trace	4040 4040	MW-8: 18.25
GP-2 (16') without filter	11/26/2013	14:39	0.0	3.3	10.7	0.1	1	30s	(0.01 inches)	1013 - 1019	MW-11: 20.07
GP-2 (16') with filter		14:39	0.0	3.3	10.6	0.1	1		(/		MW-12:19.85
GP-2 (12') without filter		14:44	0.0	6.5	9.7	0.0	0				MW-7: 18:38
GP-2 (12') with filter		14:44	0.0	6.6	8.7	0.0	Ö				MW-8: 18.52
GP-2 (16') without filter	12/5/2013	14:49	0.0	7.3	9.1	0.0	Ö	30s - 40s	0.07 inches	1013 - 1016	MW-11: 20.35
GP-2 (16') with filter		14:49	0.0	7.4	8.3	0.0	ő				MW-12: 20.13
GP-2 (12') without filter		15:45	0.0	9.9	8.5	0.0	0				MW-7: 18.45
GP-2 (12') with filter		15:45	0.0	9.7	8.3	0.0	Ö				MW-8: 18.60
GP-2 (16') without filter	12/12/2013	15:49	0.0	7.3	10.4	0.0	0	15 - 20	None	1030 - 1036	MW-11: 20.42
GP-2 (16') with filter		15:49	0.0	6.9	9.8	0.0	0				MW-12: 20.20
GP-2 (12') without filter		14:48	0.0	10.8	7.8	0.0	0				MW-7: 18.39
GP-2 (12') with filter		14:48	0.0	11.0	6.8	0.0	0				MW-8: 18.54
GP-2 (16') without filter	12/19/2013	14:51	0.0	9.0	8.9	0.0	0	30s - 40s	None	1016 - 1018	MW-11: 20.37
GP-2 (16') with filter		14:51	0.0	9.6	7.9	0.0	0				MW-12: 20.21
GP-2 (12') without filter		11:20	0.0	8.1	7.9	0.0	0				MW-7: 15.63
GP-2 (12') with filter		11:20	0.0	8.1	6.9	0.0	0		Trace		MW-8: 15.72
GP-2 (12) with filter	12/23/2013	11:27	0.0	5.8	10.4	0.0	0	20s - 30s	(0.02 inches)	1026 - 1029	MW-11: 17.45
. ,		11:27	0.0	7.6	8.7	0.0	0		(0.02 iliches)		MW-12: 17.32
GP-2 (16') with filter		16:20	0.0	21.5	0.1	0.0	0	-			MW-7: 15.24
GP-2 (12') without filter		16:20	0.0	18.2	0.1	0.0	0				MW-8: 15.39
GP-2 (12') with filter	1/2/2014						_	20s - 30s	5.46 inches	1012 - 1026	
GP-2 (16') without filter		16:24	0.0	21.4	0.3	0.0	0 0				MW-11: 17.21
GP-2 (16') with filter		16:24	0.0	21.5	0.3	0.0					MW-12: 16.98
GP-2 (12') without filter		14:40	0.0	13.8	6.6	0.0	0				MW-7: 15.17
GP-2 (12') with filter	1/9/2014	14:40	0.0	14.0	6.0	0.0	0	20s - 30s	1.55 inches	1026 - 1035	MW-8: 15.28
GP-2 (16') without filter		14:45	0.0	12.0	8.2	0.0	0				MW-11: 17.11
GP-2 (16') with filter		14:45	0.0	13.1	6.7	0.0	0				MW-12: 16.98
GP-2 (12') without filter		13:00	0.0	13.8	6.1	0.0	0				MW-7: 15.93
GP-2 (12') with filter	1/16/2014	13:00	0.0	13.9	3.8	0.0	0	20s - 30s	0.97 inches	1008 - 1019	MW-8: 16.06
GP-2 (16') without filter		13:07	0.0	12.9	7.2	0.0	0				MW-11: 17.90
GP-2 (16') with filter		13:07	0.0	13.2	4.1	0.0	0				MW-12: 17.71
GP-2 (12') without filter		13:00	0.0	16.8	5.1	0.0	0				MW-7: 15.62
GP-2 (12') with filter	1/23/2014	13:00	0.0	16.5	4.7	0.0	0	5 - 15	Trace	1019 - 1038	MW-8: 15.83
GP-2 (16') without filter	1,20,20,4	13:07	0.0	15.4	6.0	0.0	0	" "	11400	.5.0 .000	MW-11: 17.59
GP-2 (16') with filter		13:07	0.0	15.3	4.9	0.0	0				MW-12: 17.46

GP-2 Field Monitoring Values South Dayton Dump and Landfill Site Moraine, Ohio

Table 1

Sample Location:	Date:	Time	PID (ppm)	O ₂ (%)	CO ₂ (%)	CH₄ ^[2] (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)	Water Levels (ft BTOR)
GP-2 (12') without filter		14:25	0.0	17.3	4.6	0.0	0				MW-7: 17.27
GP-2 (12') with filter	1/28/2014	14:25	0.0	17.3	4.1	0.0	0	5	None	1030 - 1033	MW-8: 17.41
GP-2 (16') without filter	1/20/2014	14:30	0.0	15.2	6.5	0.0	0		None	1000 - 1000	MW-11 & MW-
GP-2 (16') with filter		14:30	0.0	15.2	5.8	0.0	0				12: iced over
GP-2 (12')	2/6/2014					ge from road		15 - 25	0.3 inches	1029 - 1032	Inaccessible
GP-2 (12') without filter		15:16	0.0	17.5	4.5	0.0	0				MW-7: 17.62
GP-2 (12') with filter	2/13/2014	15:16	0.0	17.7	3.8	0.0	0	25 - 35	None	1003 - 1018	MW-8: 17.77
GP-2 (16') without filter	2,10,2011	15:20	0.0	19.3	2.2	0.0	0	25 55	110110	1000 1010	MW-11 & MW-
GP-2 (16') with filter		15:20	0.0	19.5	0.6	0.0	0				12: iced over
GP-2 (12') without filter		14:12	0.0	16.8	4.3	0.0	0				MW-7: 17:53
GP-2 (12') with filter	2/20/2014	14:12	0.0	16.8	4.0	0.0	0	35 - 40	None	1010 - 1014	MW-8: 17.66
GP-2 (16') without filter		14:14	0.0	15.8	5.4	0.0	0	55 .5	110.10		MW-11: 19:50
GP-2 (16') with filter		14:14	0.0	15.9	4.5	0.0	0				MW-12: 19.27
GP-2 (12') without filter		13:10	0.1	19.3	23	0.0	0				MW-7: 15.64
GP-2 (12') with filter	2/27/2014	13:10	0.1	19.4	1.7	0.0	0	15 - 25	Trace	1008 - 1024	MW-8: 15.78
GP-2 (16') without filter		13:17	0.0	17.2	4.8	0.1	0				MW-11: 17.59
GP-2 (16') with filter		13:17	0.0	17.4	4.1	0.0	0				MW-12: 17.41
GP-2 (12') without filter		14:21	0.0	17.8	4.3	0.0	0				MW-7: na
GP-2 (12') with filter	3/6/2014	14:21	0.0	17.7	4.1	0.0	0	35 - 45	None	1020 - 1029	MW-8: na
GP-2 (16') without filter			0.0	16.8	5.2	0.0	0				MW-11: na
GP-2 (16') with filter			0.0	16.7	5.1	0.0	0				MW-12: na
GP-2 (12') without filter		11:57	0.0	18.1	3.5	0.0	0				MW-7: 14.12
GP-2 (12') with filter	4/2/2014	11:57	0.0	18.0	3.7	0.0	0	50s	Trace (0.15	1020	MW-8: 14.32
GP-2 (16') without filter			0.0	17.3	4.4	0.0	0		inches)		MW-11: 16.06
GP-2 (16') with filter		15.10	0.0	17.3	4.5	0.0	0				MW-12: 15.91
GP-2 (12') without filter		15:18	0.2	16.3	3.0	0.0	0				MW-7: 16.84
GP-2 (12') with filter	5/8/2014 ^[3]	15:18	0.2	16.4	2.5	0.0	0	75-85	None	1013-1017	MW-8: 16.70
GP-2 (16') without filter		15:22	0.5	20.3	0.0	0.0	0				MW-11: 18.68
GP-2 (16') with filter		15:22	0.5	20.0	1.6	0.0	<u> </u>				MW-12: 18.46
GP-2 (12') without filter		15:40	0.0	12.6	4.1		_				MW-7: na
GP-2 (12') with filter	6/3/2014	15:40	0.0	12.6	3.7	0.0	0 0	75-85	Trace	1011-1014	MW-8: na
GP-2 (16') without filter		15:45	0.1	11.6	4.4	0.0 0.0	0				MW-11: na
GP-2 (16') with filter		15:45 15:17	0.1	11.7 2.2	4.4 6.7	0.0	0				MW-12: na MW-7: 17.37
GP-2 (12') without filter			0.0	2.2	6.4	0.0	0				MW-8: 17.51
GP-2 (12') with filter	7/17/2014	15:17 15:23		∠.1 1.7	6.7	1.7	35	70-75	None	1016-1020	MW-11: 19.36
GP-2 (16') without filter GP-2 (16') with filter		15:23	15.0 15.0	1.7	6.2	1.7	23				MW-12: 19.13
GP-2 (10) with filter		14:40	13.3	2.2	7.4	1.6	33				MW-7: 18.33
1 ` ′		14:40	13.3	2.3	6.4	1.4	29				MW-8: 18.19
GP-2 (12') with filter GP-2 (16') without filter	8/14/2014	14:46	45.8	2.3 1.3	8.2	5.8	>100	70-80	None	1014-1017	MW-11: 20.17
GP-2 (16') with filter		14:46	45.8 45.8	1.3	o.∠ 7.6	2.4	49				MW-12: 19.94
GP-2 (12') without filter		15:51	25.6	0.9	8.5	2.7	55				MW-7: na
GP-2 (12) with filter		15:51	25.6 25.6	0.9	8.2	2.7 1.8	36				MW-8: na
GP-2 (12) with filter	8/21/2014	14:45	7.2	0.8	9.2	6.0	>100	75-79	1.14 Inches	1014-1018	MW-11: na
GP-2 (16) with filter		14:45	7.2 7.2	0.8	8.2	2.4	48				MW-12: na
GP-2 (12') with filter		11:40	 35.4	0.8	9.2	4.5	90				MW-7: 18.11
GP-2 (12') with filter		11:40	35.4	0.7	9.2 7.4	2.4	90 48		l		MW-8: 18.25
GP-2 (12) with filter	8/28/2014	11:40	40.0	1.7	7.4 9.5	2.4 5.9	>100	7580	None	1016-1019	MW-11: 20.10
GP-2 (16) with filter		11:43	40.0	1.7	8.3	2.2	45		l		MW-12: 19.87
GF-2 (10) Willi liller		11.43	40.0	1.0	0.3	۷.۷	40	i			1V1VV-14. 13.01

GP-2 Field Monitoring Values South Dayton Dump and Landfill Site Moraine, Ohio

Sample Location:	Date:	Time	PID (ppm)	O ₂ (%)	CO ₂ (%)	CH ₄ ^[2] (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)	Water Levels (ft BTOR)
GP-2 (12') without filter		14:40	26.5	3.8	7.6	2.3	46				MW-7: na
GP-2 (12') with filter	9/4/2014	14:40	26.5	3.9	7.9	2.1	41	85-90	None	1016-1019	MW-8: na
GP-2 (16') without filter		14:45	38.2	6.1	7.1	3.3	66				MW-11: na
GP-2 (16') with filter GP-2 (12') without filter		14:45 13:34	38.2 0.0	6.1 4.8	7.3 9.0	3.0 0.0	60 0				MW-12: na MW-7: na
GP-2 (12) with filter		13:34	0.0	4.6 5.2	9.0	0.0	0				MW-8: na
GP-2 (16') without filter	10/9/2014	13:40	0.0	3.5	10.4	0.0	0	50s	0.3 Inches	1017-1021	MW-11: na
GP-2 (16') with filter		13:40	0.0	3.6	10.2	0.0	Ö				MW-12: na
GP-2 (12') without filter		13:43	0.0	14.6	4.1	0.0	0				MW-7: na
GP-2 (12') with filter	14/26/2014	13:43	0.0	15.0	1.6	0.0	0	20.25	Na	1010 1000	MW-8: na
GP-2 (16') without filter	11/26/2014	13:46	0.0	13.6	4.6	0.0	0	30-35	None	1018-1023	MW-11: na
GP-2 (16') with filter		13:46	0.0	13.4	2.3	0.0	0				MW-12: na
GP-2 (12') without filter		16:00	0.0	20.6	0.0	0.0	0				MW-7: 17.85
GP-2 (12') with filter	2/6/2015	16:00	0.0	20.7	0.0	0.0	0	25-35	None	1022 - 1030	MW-8: 17.98
GP-2 (16') without filter		16:04	0.0	14.7	5.9	0.0	0				MW-11: 19.81
GP-2 (16') with filter		16:04	0.0	14.8	5.2	0.0	0				MW-12: 19.59
GP-2 (12') without filter		16:09	0.0 0.0	9.5	4.2 3.4	0.0	0				MW-7: 17.45
GP-2 (12') with filter GP-2 (16') without filter	5/20/2015	16:09 16:11	0.0	9.8 7.1	5.4 5.2	0.0 0.0	0 0	50-60	None	1016 - 1022	MW-8: 17.60 MW-11: 19.43
GP-2 (16') with filter		16:11	0.0	7.1	4.9	0.0	0				MW-12: 19.21
GP-2 (12') without filter		14:00	0.0	4.4	9.0	0.0	0				MW-7: 17.75
GP-2 (12') with filter		14:00	0.0	4.4	8.4	0.0	Ö		_		MW-8: 17.56
GP-2 (16') without filter	8/20/2015	14:04	1.2	2.3	9.8	0.1	3	65-70	Trace	1009 - 1017	MW-11: 19.54
GP-2 (16') with filter		14:04	1.2	2.5	9.6	0.1	2				MW-12: 19.30
GP-2 (12') without filter		14:22	0.0	2.2	9.7	0.0	0				MW-7: 18.60
GP-2 (12') with filter	11/5/2015	14:22	0.0	2.3	7.5	0.0	0	60-70	Trace	1019 - 1021	MW-8: 18.46
GP-2 (16') without filter	11/3/2013	14:25	0.0	1.2	10.5	0.0	0	00-70	Hace	1019 - 1021	MW-11: 20.43
GP-2 (16') with filter		14:25	0.0	1.2	8.7	0.0	0				MW-12: 20.20
GP-2 (12') without filter		14:42	0.0	14.2	6.2	0.0	0				MW-7: 17.54
GP-2 (12') with filter	1/28/2016	14:42	0.0	14.5	4.9	0.0	0	35-45	Trace	1005 - 1012	MW-8: 17.40
GP-2 (16') without filter		14:47	0.0	12.0	7.9	0.0	0				MW-11: 19.37
GP-2 (16') with filter		14:47 14:26	0.0 74.9	12.1 1.5	7.4 7.5	0.0 13.5	0 >100				MW-12: 19.15 MW-7: 18.77
GP-2 (12') without filter GP-2 (12') with filter		14:26	74.9 74.9	1.3	7.3 7.4	4.5	87				MW-8: 18.65
GP-2 (16') without filter	7/21/2016	14:32	98.1	1.3	7.8	34.6	>100	88-91	None	1019 - 1020	MW-11: 20.61
GP-2 (16') with filter		14:32	98.1	1.4	7.5	5.0	>100				MW-12: 20.37
GP-2 (12') without filter		11:06	68.4	0.5	7.5	13.7	>100				MW-7: 19.08
GP-2 (12') with filter		11:06	68.4	10.1	3.4	2.1	42	05.00		4040 4044	MW-8: 18.86
GP-2 (16') without filter	7/29/2016 ^[4]	11:17	83.5	0.7	7.7	39.2	>100	85-86	None	1010 - 1014	MW-11: 20.58
GP-2 (16') with filter		11:17	83.5	9.8	3.7	2.6	52				MW-12: 20.68
GP-2 (12') without filter		17:08	30.4	0.1	7.7	12.3	>100				MW-7: 19.20
GP-2 (12') with filter	8/5/2016	17:08	30.4	0.1	7.6	4.5	91	87 - 91	None	1012 - 1014	MW-8: 19.05
GP-2 (16') without filter	3/3/2010	17:12	63.0	0.2	7.9	37.8	>100	0, - 3	None	1012 - 1014	MW-11:21.03
GP-2 (16') with filter		17:12	63.0	0.9	7.4	5.1	>100				MW-12:20.78

GP-2 Field Monitoring Values South Dayton Dump and Landfill Site Moraine, Ohio

Table 1

Sample Location:	Date:	Time	PID (ppm)	O ₂ (%)	CO ₂ (%)	CH ₄ ^[2] (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)	Water Levels (ft BTOR)
GP-2 (12') without filter		11:25	41.8	0.0	8.2	15.5	>100	i '	•	•	MW-7: 19.24
GP-2 (12') with filter	8/13/2016	11:25	41.8	0.9	7.6	4.5	90	79 - 84	Trace	1011 - 1015	MW-8: 19.38
GP-2 (16') without filter	0,13,2010	11:32	73.0	0.0	8.6	44.1	>100	'9-04	Hace	1011-1013	MW-11: 20.97
GP-2 (16') with filter		11:32	73.0	1.6	7.7	4.9	99				MW-12: 21.08
GP-2 (12') without filter		11:04	8.1	0.0	8.9	16.7	>100				MW-7: 19.04
GP-2 (12') with filter	8/19/2016 ^[5]	11:04	8.1	0.1	8.6	4.1	82	77 - 86	None	1014 - 1017	MW-8: 18.90
GP-2 (16') without filter	8/19/2016	11:12	17.0	0.3	9.2	30.5	>100	11-00	None	1014 - 1017	MW-11: 20.87
GP-2 (16') with filter		11:12	17.0	0.4	9.0	4.2	84				MW-12: 20.64
GP-2 (12') without filter		12:53	47.9	0.1	8.3	9.3	>100				MW-7: 18.99
GP-2 (12') with filter		12:53	47.9	0.1	8.3	3.4	68				MW-8: 19.12
GP-2 (16') without filter	8/23/2016	12:59	68.3	0.0	8.7	15.5	>100	75 -80	None	1023 -1026	MW-11: 20.70
GP-2 (16') with filter		12:59	68.3	0.0	8.7	3.5	70				MW-12: 20.81
GP-2 (12') without filter		13:08	60.7	0.4	8.8	6.4	>100				MW-7: 19.11
1 ' '		13:08	60.7	0.4	8.6	3.0	60				MW-8: 18.98
GP-2 (12') with filter	8/29/2016							79-88	None	1022 - 1025	
GP-2 (16') without filter		13:13	82.5	0.2	9.3	15.7	>100				MW-11: 20.71
GP-2 (16') with filter		13:13	82.5	0.3	9.0	3.3	65				MW-12: 20.85
GP-2 (12') without filter			18.1	0.0	8.5	4.5	90				MW-7: 19.45
GP-2 (12') with filter	9/7/2016		18.1	0.0	8.0	2.8	56	75 - 90	None	1019 - 1022	MW-8: 19.29
GP-2 (16') without filter			33.0	0.0	8.7	13.3	>100				MW-11: 21.74
GP-2 (16') with filter			33.0	0.0	8.5	3.6	73				MW-12: 21.03
GP-2 (12') without filter			32.7	0.0	9.3	6.9	>100				MW-7: 19.37
GP-2 (12') with filter	9/14/2016		32.7	0.0	9.4	3.2	65	75 - 85	Trace	1020 - 1024	MW-8: 19.22
GP-2 (16') without filter			53.1	0.0	9.6	20.1	>100				MW-11: 21.10
GP-2 (16') with filter			53.1	0.0	9.6	4.0	80				MW-12: 20.91
GP-2 (12') without filter		14:10	25.5	0.0	8.8	7.4	>100				MW-7: 19.55
GP-2 (12') with filter	9/20/2016	14:10	25.5	0.0	8.8	3.3	67	72 - 86	None	1019 - 1022	MW-8: 19.41
GP-2 (16') without filter		14:28	37.7	0.0	9.0	19.4	>100				MW-11: 21.24
GP-2 (16') with filter		14:28	37.7	0.0	8.8	4.0	80				MW-12: 21.15
GP-2 (12') without filter		14:43	28.5	0.1	10.0	6.6	>100				MW-7: 19.67
GP-2 (12') with filter	9/28/2016	14:43	28.5	0.0	10.1	3.1	62	50 - 60	1 inch	1009 - 1014	MW-8: 19.52
GP-2 (16') without filter		14:48	35.2	0.1	10.2	16.6	>100				MW-11: 21.51
GP-2 (16') with filter		14:48	35.2	0.1	10.2	3.7	74				MW-12: 21.26
GP-2 (12') without filter GP-2 (12') with filter		11:38 11:38	88.4 88.4	0.0 0.0	9.4 9.3	5.7 2.8	>100 56				MW-7: 19.56 MW-8: 19.40
GP-2 (12) without filter	10/7/2016	11:43	89.5	0.0	9.3 9.7	2.8 11.9	>100	55 - 79	None	1016 - 1020	MW-11: 21.38
GP-2 (16') with filter		11:43	89.5	0.0	8.6	3.4	68				MW-12: 21.13
GP-2 (12') without filter		15:44	27.9	0.0	9.4	4.7	94				MW-7: 19.69
GP-2 (12') with filter	10/12/2016	15:44	27.9	0.0	9.2	2.7	54	50 - 77	Trace	1017 - 1023	MW-8: 19.55
GP-2 (16') without filter		15:40	44.2	0.0	9.7	10.2	>100	•• ··	11000		MW-11: 21.27
GP-2 (16') with filter GP-2 (12') without filter		15:40 12:55	44.2 25.4	0.0	9.4 10.4	2.9 6.0	<u>59</u> >100				MW-12: 21.52 MW-7: 19.71
IGP-2 (12') with filter	10/04/00:5	12:55	25.4	0.0	10.4	2.8	56	40 55		1010 1010	MW-8: 19.54
GP-2 (16') without filter	10/21/2016	12:55	27.2	0.4	10.5	12.5	>100	48 - 55	0.3 inches	1012 - 1018	MW-11: 21.26
GP-2 (16') with filter		12:55	27.2	0.4	10.1	3.1	62				MW-12: na
GP-2 (12') without filter		13:17	16.5	0.8	10.1	3.2	65				MW-7: 19.53
GP-2 (12') with filter	10/28/2016	13:17	16.5	0.4	8.4	2.0	40	43 - 64	None	1020 - 1027	MW-8: 19.38
GP-2 (16') without filter GP-2 (16') with filter			32.9 32.9	0.5 0.7	10.0 9.6	4.4 1.9	90 40				MW-11: 21.10 MW-12: 21.35
GF-2 (10) WILLI HILLER			ა∠.ყ	0.7	9.0	1.8	40	L			CC. I ∠ . ∠I -VVIVI

GP-2 Field Monitoring Values South Dayton Dump and Landfill Site Moraine, Ohio

Sample Location:	Date:	Time	PID (ppm)	O ₂ (%)	CO ₂ (%)	CH ₄ ^[2] (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)	Water Levels (ft BTOR)
GP-2 (12') without filter GP-2 (12') with filter GP-2 (16') without filter GP-2 (16') with filter	11/29/2016	13:30 13:30 13:35 13:35	0.2 0.2 9.6 9.6	0.2 0.2 0.4 0.4	11.3 11.0 10.8 10.5	0.0 0.0 0.7 0.4	0 0 14 9	45 - 60	None	996 - 1007	MW-7: na MW-8: na MW-11: na MW-12: na

Notes:

- The explosive gas monitor baseline reading was 1 percent LEL. The meter did not zero for LEL readings and the corresponding methane readings were 0 percent; therefore, the readings of 1 percent are anomalous.

- The Landtec GEM 2000 combustible gas monitor measures explosive gases as a percent of methane by volume. The presence of other hydrocarbon gases affects methane readings.

-CO₂ readings started at 0.1 ppm.

-GHD field personnel noted the presence of a manhole (and a possible underground utility) located ~ 3 feet from GP-2 that may be contributing to elevated methane levels

^[5] Collected SUMMA canister samples at GP-2 (12')(16')

PID - Photoionization Detector

O₂ - Oxygen

CO₂ - Carbon Dioxide CH₄ - Methane

LEL - Lower Explosive Limit

NM - Not measured

U - Qualified as non-detect due to issues with the filter

Value - Value is greater than LEL for methane (5 percent methane)

Source of weather data from July to November 2016:

https://www.wunderground.com/history/airport/KDAY/2016/9/28/DailyHistory.html?req_city=&req

state=&req_statename=&reqdb.zip=&reqdb.magic=&reqdb.wmo=

Table 2 Page 1 of 17

Sample Location:			PID	O ₂	CO2	CH₄	LEL	Ambient	Summary of Recent	Barometric
Parcel / Building / Probe	Date:	Time	(ppm)	(%)	(%)	(%)	(%)	Temperature (°F)		Pressure (hPa)
5173 / 1 / Storage area ambient air, without filter		11:50	0.9	22.1	0.1	0.0	ND(1) ¹	, , ,		· , ,
5173 / 1 / C / Storage area, without filter	1/19/2012	12:01	391	7.5	2.7	0.9	19			
5173 / 1 / Storage area ambient air, without filter	1/24/2012	10:00	0	21.5	0.0	0.0	0			
5173 / 1 / C / Storage area, without filter	172472012	10:09	96.7	5.5	2.8	0.9	19			
5173 / 1 / Storage area ambient air, without filter	1/31/2012	10:50	1	21.6	0.0	0.0	0			
5173 / 1 / C / Storage area, without filter 5173 / 1 / Storage area ambient air, without filter		11:14 10:44	182.7 0.1	5.5 21.7	3.1 0.1	0.0	25 0			
5173 / 1 / C / Storage area, without filter	2/7/2012	10:44	142.3	10.9	1.8	0.0	21			
5173 / 1 / Storage area ambient air, without filter		10:40	0.1	20.5	0.1	0.0	0			
5173 / 1 / C / Storage area with filter	2/16/2012	11:04	79.4	14.1	3.1	0.5	10			
5173 / 1 / C / Storage area without filter		11:04	79.4	18.1	0.3	0.2	3			
5173 / 1 / Storage area ambient air, without filter 5173 / 1 / C / Storage area with filter	3/1/2012	11:36 12:46	0.1 196.5	21.4 13.8	0.0	0.0	0 7			
5173 / 1 / C / Storage area withhiter	3/1/2012	12:48	196.5	16.9	1.5	0.4	9			
5173 / 1 / Storage area ambient air		9:32	0	20.1	0.8	0.0	ō			
5173 / 1 / C / Storage area with filter		10:20	101.2	1.0	3.3	0.8	18			
5173 / 1 / C / Storage area without filter			101.2	0.4	4.7	1.4	27			
5173 / 1 / A ambient air without filter 5173 / 1 / A with filter	3/13/2012	9:57	0	21.0 16.9	0.1 3.0	0.0 0.0	0			
5173 / 1 / A with filter 5173 / 1 / B ambient air without filter		10:15 9:30	0	21.4	0.0	0.0	0			
5173 / 1 / B with filter		9:48	0.2	9.1	7.9	0.0	Ö			
5173 / 1 / Storage area ambient air, without filter		11:50	0	20.5	0.0	0.0	0			
5173 / 1 / C / Storage area with filter	3/22/2012	12:44	105.8	3.2	1.2	0.7	11			
5173 / 1 / C / Storage area without filter		12:47	105.8	3.0	5.1 0.0	0.0	24 0			
5173 / 1 / Storage area ambient air, without filter 5173 / 1 / C / Storage area with filter	3/27/2012		0.1 17.1	21.5 3.9	1.9	0.0	17			
5173 / 1 / C / Storage area withhiter	3/21/2012	10:56	17.1	5.9	5.4	1.2	26			
5173 / 1 / Storage area ambient air, without filter		12:30	0	21.0	0.0	0.0	0			
5173 / 1 / C / Storage area with filter	4/3/2012	13:09	136.8	1.9	0.4	8.0	19			
5173 / 1 / C / Storage area without filter		13:10	136.8	1.7	5.1	1.4	29			
5173 / 1 / Storage area ambient air, without filter 5173 / 1 / C / Storage area with filter	4/10/2012	11:05 11:52	0 206.1	21.6 3.0	0.0 0.5	0.0	0 19			
5173 / 1 / C / Storage area withhiter	4/10/2012	11:53	206.1	3.1	1.2	0.0	27			
5173 / 1 / Storage area ambient air, without filter		10:15	0	21.5	0.0	0.0	0			
5173 / 1 / C / Storage area with filter	4/17/2012	10:32	129.8	2.3	2.2	0.9	19			
5173 / 1 / C / Storage area without filter		10:37 11:13	129.8 0	1.5 21.0	5.5 0.0	0.0	28 0			
5173 / 1 / Storage area ambient air, without filter 5173 / 1 / C / Storage area with filter	4/26/2012	11:13	120.7	2.2	1.7	0.0	10			
5173 / 1 / C / Storage area without filter	7,20,2012	11:31	120.7	14.9	1.6	0.5	12			
5173 / 1 / Storage area ambient air, without filter		11:33	0	20.2	0.1	0.0	0			
5173 / 1 / C / Storage area with filter	5/3/2012	11:45	122.1	15.2	0.8	0.3	5			
5173 / 1 / C / Storage area without filter		11:48	122.1	9.5 20.6	3.4	0.7	14 0			
5173 / 1 / Storage area ambient air, without filter 5173 / 1 / C / Storage area with filter	5/10/2012	13:58 14:10	0 167.9	10.7	0.0 0.9	0.0 0.6	14			
5173 / 1 / C / Storage area without filter		14:11	167.9	7.8	3.8	0.9	18			
5173 / 1 / Storage area ambient air, without filter			0	20.1	0.0	0.0	0			
5173 / 1 / C / Storage area with filter	5/15/2012		80.4	10.7	0.2	0.5	10			
5173 / 1 / C / Storage area without filter 5173 / 1 / Storage area ambient air, without filter		13:15	80.4 0.0	20.8	0.3	0.1 0.0	0			
5173 / 1 / Storage area ambient air, without filter	5/24/2012	13:15	107.1	20.6 1.2	6.2	0.0	18			
5173 / 1 / C / Storage area without filter		13:47	107.1	2.2	6.4	1.3	26			
5173 / 1 / Storage area ambient air, without filter		11:04	0.0	20.4	0.0	0.0	0			
5173 / 1 / C / Storage area with filter	5/31/2012	11:14	116.6	8.7	1.5	0.3	7			
5173 / 1 / C / Storage area without filter 5173 / 1 / Storage area ambient air, without filter		11:20 10:24	116.6 0.0	16.8 20.9	2.0 0.0	0.7	27 0			
5173 / 1 / C / Storage area with filter	6/7/2012	10:33	102.2	0.9	6.2	1.1	22			
5173 / 1 / C / Storage area without filter		10:44	102.2	1.8	7.0	1.4	28			
5173 / 1 / Storage area ambient air, without filter		10:55	0.0	20.4	0.0	0.0	0			
5173 / 1 / C / Storage area with filter	6/14/2012	11:07	72.0	5.5	3.5	0.7	20			
5173 / 1 / C / Storage area without filter 5173 / 1 / Storage area ambient air, without filter		11:13	72.0 0.0	3.8 20.2	4.3 0.0	0.0	21 0			
5173 / 1 / Storage area with filter	6/19/2012	10:55	78.0	1.8	2.3	1.3	26			
5173 / 1 / C / Storage area without filter		10:57	78.0	1.3	7.3	2.2	43			
5173 / 1 / Storage area ambient air, without filter		10:01	0.0	20.4	0.0	0.0	0			
5173 / 1 / C / Storage area with filter	6/28/2012	10:11	65.7	5.8	3.2	0.7	21			
5173 / 1 / C / Storage area without filter 5173 / 1 / Storage area ambient air, without filter		10:11 10:15	65.7 0.0	3.7 19.7	4.7 0.0	0.0	27 0			
5173 / 1 / Storage area ambient air, without litter	7/3/2012	10:15	68.0	1.9	7.6	1.7	36			
5173 / 1 / C / Storage area without filter		10:58	68.0	1.9	6.4	1.3	25		<u> </u>	
•	-									

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Sample Location:	T	l .	PID	O ₂	CO ₂	CH₄	1.51	A t. : 4	0	B
'	B-t-						LEL	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)
Parcel / Building / Probe	Date:	Time	(ppm)	(%)	(%)	(%)	(%)	remperature (1)	1 recipitation	Tressure (III a)
5173 / 1 5173 / 1 / Storage area ambient air, without filter	7/11/2012	13:15	0.1	20.4	navailable 0.0	0.0	0			
5173 / 1 / C / Storage area with filter	7/19/2012	13:40	65.9	1.7	6.5	1.8	38			
5173 / 1 / C / Storage area without filter		13:40	65.9	1.6	7.9	2.6	51			
5173 / 1 / Storage area ambient air, without filter		9:45	0.0	20.2	0.0	0.0	0			
5173 / 1 / C / Storage area with filter	7/26/2012	9:54	0.0	2.4	6.2	1.9	43			
5173 / 1 / C / Storage area without filter		9:54	0.0	1.0	7.7	3.2	63			
5173 / 1 / Storage area ambient air, with filter 5173 / 1 / Storage area ambient air, without filter		9:40 9:40	0.0 0.0	20.6 20.7	0.0 0.0	0.0	0			
5173 / 1 / C / Storage area with filter	8/2/2012	9:52	79.6	9.2	0.1	1.1	17	90s	none	
5173 / 1 / C / Storage area without filter		9:52	79.6	6.9	5.3	1.8	38			
5173 / 1 / Storage area ambient air, with filter		9:57					0			
5173 / 1 / Storage area ambient air, without filter	8/7/2012	9:57	0.3	20.7	0.1	0.0	0	low 90s	none	
5173 / 1 / C / Storage area with filter	0///2012	10:06					43	1044 303	Hone	
5173 / 1 / C / Storage area without filter	-	10:06	116.5	3.7	6.7	2.9	57			
5173 / 1 / A / Office area ambient air with filter 5173 / 1 / A / Office area ambient air without filter		11:55 11:55	0.1 0.1	20.3 20.2	0.0 0.0	0.0	0			
5173 / 1 / A / Office area with filter		11:58	2.5	19.5	0.3	0.0	0			
5173 / 1 / A / Office area without filter		11:58	2.5	19.7	0.9	0.0	Ö			
5173 / 1 / B / Firing Range	8/16/2012				iring Rang			80 - Iow 90s	none	
5173 / 1 / Storage area ambient air, with filter	1	11:52	0.3	20.6	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		11:52	0.3	20.6	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		12:26	100.7	0.5	6.1	2.2	47			
5173 / 1 / C / Storage area without filter	-	12:26 14:05	100.7	1.3	6.7	3.1 0.0	62 0			
5173 / 1 / A / Office area ambient air with filter 5173 / 1 / A / Office area ambient air without filter		14:05	0.0	21.1 21.0	0.0 0.0	0.0	0			
5173 / 1 / A / Office area with filter		14:20	2.0	19.5	0.1	0.0	0			
5173 / 1 / A / Office area without filter		14:20	2.0	19.7	0.8	0.0	Ö			
5173 / 1 / B / Firing Range ambient air with filter		13:45	0.0	20.4	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	8/21/2012	13:45	0.0	20.4	0.0	0.0	0	80s	none	
5173 / 1 / B / Firing Range with filter	0/21/2012	13:55	2.3	4.4	12.2	0.0	0	oos	none	
5173 / 1 / B / Firing Range without filter		13:55	2.3	6.3	11.0	0.0	0			
5173 / 1 / Storage area ambient air, with filter		14:25 14:25	0.0	21.1	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter 5173 / 1 / C / Storage area with filter		14:25	0.0 110.9	21.4 0.5	0.0 5.0	0.0 2.1	42			
5173 / 1 / C / Storage area with filter		14:37	110.9	4.8	5.1	2.3	46			
5173 / 1 / A / Office area ambient air without filter		1 1.01	0.0	20.0	0.0	0.0	0			
5173 / 1 / A / Office area with filter		13:44	0.5	19.5	0.9	0.0	0			
5173 / 1 / A / Office area without filter		13:44	0.5	19.4	1.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	1	13:57	0.0	20.7	0.0	0.0	0			
5173 / 1 / B / Firing Range with filter	8/30/2012	14:07	1.2	5.5	11.0	0.0	0	80s	none	
5173 / 1 / B / Firing Range without filter 5173 / 1 / Storage area ambient air, without filter		14:07 13:03	1.2 0.0	5.3 20.5	11.6 0.0	0.0 0.0	0			
5173 / 1 / C / Storage area with filter		13:21	39.1	1.4	3.8	1.9	39			
5173 / 1 / C / Storage area without filter		13:21	39.1	0.9	6.6	2.8	57			
5173 / 1 / A / Office area ambient air with filter			0.0	20.6	0.0	0.0	0			
5173 / 1 / A / Office area ambient air without filter			0.0	20.8	0.0	0.0	0			
5173 / 1 / A / Office area with filter	1	14:07	3.8	19.4	0.1	0.0	0			
5173 / 1 / A / Office area without filter	1	14:07	3.8 0.0	19.2	0.9 0.0	0.0 0.0	0			
5173 / 1 / B / Firing Range ambient air with filter 5173 / 1 / B / Firing Range ambient air without filter	1	l	0.0	20.3 20.4	0.0	0.0	0		rain daily during	
5173 / 1 / B / Firing Range with filter	9/6/2012	14:00	3.8	62.0	9.9	0.0	0	80s	week of September	
5173 / 1 / B / Firing Range without filter	1	14:00	3.8	63.0	11.4	0.0	ő		2 to 6	
5173 / 1 / Storage area ambient air, with filter	1	13:20	0.0	20.3	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:20	0.0	20.2	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		13:41	140.4	0.9	5.0	1.9	38			
5173 / 1 / C / Storage area without filter	1	13:41	140.4	0.8	6.3	2.8	58 0			
5173 / 1 / A / Office area ambient air with filter	1	l	0.0 0.0	20.9 20.7	0.0 0.0	0.0 0.0	0			
5173 / 1 / A / Office area ambient air without filter 5173 / 1 / A / Office area with filter	1	12:08	0.5	20.7 19.6	0.0	0.0	0			
5173 / 1 / A / Office area without filter	1	12:08	0.5	19.2	1.0	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter	1		0.0	21.3	0.0	0.0	Ō			
5173 / 1 / B / Firing Range ambient air without filter	9/13/2012	l	0.0	21.1	0.0	0.0	0	high 70s - low	none	
5173 / 1 / B / Firing Range with filter	3/13/2012	12:23	1.9	5.8	9.7	0.0	0	80s	none	
5173 / 1 / B / Firing Range without filter	1	12:23	1.9	5.5	11.8	0.0	0			
5173 / 1 / Storage area ambient air, with filter	1	l	0.0	21.2	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter 5173 / 1 / C / Storage area with filter	1	l	0.0	21.2	0.0 5.1	0.0	0 45			
5173 / 1 / C / Storage area with filter	1		60.2 60.2	0.8 1.0	6.0	2.3 2.7	55			
OTTOT TO TOLORAGE ALEA WILLIOUS TILLET	i		UU.Z	1.0	0.0	4.1	JU	l		

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Sample Location:			PID	0,	CO ₂	CH₄	LEL	Ambient	Summary of Recent	Barometric
Parcel / Building / Probe	Date:	Time	(ppm)	(%)	(%)	(%)	(%)	Temperature (°F)	Precipitation	Pressure (hPa)
5173 / 1 / A / Office area ambient air with filter	Date.	11:55	0.0	20.3	0.1	0.0	0	· ` ` `	·	
5173 / 1 / A / Office area ambient air without filter		11:55	0.0	20.3	0.0	0.0	ō			
5173 / 1 / A / Office area with filter		12:04	0.6	18.0	0.2	0.0	0			
5173 / 1 / A / Office area without filter		12:04	0.6	17.8	1.5	0.0	0			
5173 / 1 / B / Firing Range	9/20/2012		cessible o					low 70s	none	
5173 / 1 / Storage area ambient air, with filter		12:15	0.0	20.9	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter 5173 / 1 / C / Storage area with filter		12:15 12:23	0.0 88.5	20.9 1.9	0.0 4.5	0.0 2.0	0 41			
5173 / 1 / C / Storage area without filter		12:23	88.5	1.8	5.3	2.6	52			
5173 / 1/ SIM Trainer	9/27/2012	12.20	00.0	Inacce		2.0	OL.	60s - 70s	none	
5173 / 1 / A / Office area ambient air with filter		13:05	0.0	21.1	0.0	0.0	0			
5173 / 1 / A / Office area ambient air without filter		13:05	0.0	21.1	0.0	0.0	0			
5173 / 1 / A / Office area with filter		13:09	0.7	15.6	0.7	0.0	0			
5173 / 1 / A / Office area without filter		13:09	0.7	17.4	1.6	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		12:50	0.0	20.9	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	10/2/2012	12:50	0.0	20.9 4.6	0.0 10.3	0.0 0.0	0 0	mid 60s	light rain	
5173 / 1 / B / Firing Range with filter 5173 / 1 / B / Firing Range without filter		13:00 13:00	0.7 0.7	4.0	10.5	0.0	0			
5173 / 1 / Storage area ambient air, with filter		13:13	0.7	21.2	0.0	0.0	0			
5173 / 1 / Storage area ambient air, withhiter		13:13	0.0	21.2	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		13:17	57.3	0.8	5.8	2.0	40			
5173 / 1 / C / Storage area without filter		13:17	57.3	0.9	5.0	2.8	56			
5173 / 1 / A / Office area ambient air with filter		13:15	0.0	21.2	0.1	0.0	0			
5173 / 1 / A / Office area ambient air without filter		13:15	0.0	21.3	0.0	0.0	0			
5173 / 1 / A / Office area with filter		13:44	0.8	16.3	2.4	0.0	0			
5173 / 1 / A / Office area without filter	10/10/0010	13:44	0.8	16.2	2.5	0.0	0			
5173 / 1 / B / Firing Range	10/18/2012		cessible o				ation 0	mid 70s	none	
5173 / 1 / Storage area ambient air, with filter 5173 / 1 / Storage area ambient air, without filter		13:17 13:17	0.0 0.0	21.3 21.3	0.0 n.n	0.0	0			
5173 / 1 / C / Storage area with filter		13:50	104.2	1.8	3.8	1.5	30			
5173 / 1 / C / Storage area without filter		13:50	104.2	1.9	4.3	1.9	38			
5173 / 1 / A / Office area ambient air with filter		13:35	0.0	21.0	0.1	0.0	0			
5173 / 1 / A / Office area ambient air without filter		13:35	0.0	21.0	0.1	0.0	0			
5173 / 1 / A / Office area with filter		14:17	2.4	15.6	0.8	0.0	0			
5173 / 1 / A / Office area without filter		14:17	2.4	15.2	2.6	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:06	0.0	20.5	0.1	0.0	1 ^R			
5173 / 1 / B / Firing Range ambient air without filter	10/25/2012	13:06	0.0	20.3	0.0	0.0	0	70s	none	
5173 / 1 / B / Firing Range with filter		14:20	1.0	3.8	9.6	0.0	0			
5173 / 1 / B / Firing Range without filter		14:20	1.0	4.1	10.0	0.0	0			
5173 / 1 / Storage area ambient air, with filter		13:20	0.0	21.0	0.1	0.0	1 ^R			
5173 / 1 / Storage area ambient air, without filter 5173 / 1 / C / Storage area with filter		13:20 14:24	0.0 72.9	20.9 1.3	0.0 3.7	0.0 1.5	0 31			
5173 / 1 / C / Storage area without filter		14:24	72.9	1.4	3.7 4.1	2.0	41			
5173 / 1 / A / Office area ambient air with filter	1	13:35	0.0	21.9	0.1	0.0	0			
5173 / 1 / A / Office area ambient air without filter		13:35	0.0	21.9	0.1	0.0	ō			
5173 / 1 / A / Office area with filter		14:55	1.6	14.2	1.8	0.0	Ō			
5173 / 1 / A / Office area without filter		14:55	1.6	14.3	3.2	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:48	0.0	21.3	0.1	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	10/30/2012	13:48	0.0	21.4	0.0	0.0	0	30s - 40s	snow & rain	
5173 / 1 / B / Firing Range with filter		15:02	1.6	4.0	9.5	0.0	0			
5173 / 1 / B / Firing Range without filter		15:02	1.6 0.0	4.1 22.2	10.5 0.1	0.0 0.0	0			
5173 / 1 / Storage area ambient air, with filter 5173 / 1 / Storage area ambient air, without filter		13:20 13:20	0.0	22.2	0.1	0.0	0			
5173 / 1 / C / Storage area with filter		15:06	79.5	1.2	4.3	1.6	34			
5173 / 1 / C / Storage area without filter		15:06	79.5	1.4	4.1	2.1	43			
5173 / 1 / A / Office area ambient air with filter		14:02	1.4	21.4	0.1	0.0	0			
5173 / 1 / A / Office area ambient air without filter		14:02	1.4	21.5	0.1	0.0	0			
5173 / 1 / A / Office area with filter		15:21	4.2	13.7	3.2	0.0	0			
5173 / 1 / A / Office area without filter		15:21	4.2	13.7	3.6	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		14:15	1.2	21.0	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	11/8/2012	14:15	1.2	21.1	0.0	0.0	0	30s - 40s	none	
5173 / 1 / B / Firing Range with filter		15:26 15:26	1.8 1.8	4.5 4.8	9.5 9.9	0.0	0			
5173 / 1 / B / Firing Range without filter 5173 / 1 / Storage area ambient air, with filter		13:35	1.3	4.6 20.9	0.0	0.0	0			
5173 / 1 / Storage area ambient air, withhiter		13:35	1.3	21.1	0.0	0.0	0			
	1							1	1	
5173 / 1 / C / Storage area with filter		15:36	165.5	1.2	3.2	1.4	27		l .	

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Sample Location: Parcel / Building / Probe		l	PID							Darametria
arcer building it robe	Date:	Time	(ppm)	O ₂ (%)	CO ₂ (%)	CH₄ (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)
5173 / 1 / A / Office area ambient air with filter	Date.	13:37	0.0	21.7	0.2	0.0	(%)			
5173 / 1 / A / Office area ambient air without filter		13:37	0.0	21.8	0.1	0.0	ő			
5173 / 1 / A / Office area with filter		15:32	0.0	14.3	3.3	0.0	0			
5173 / 1 / A / Office area without filter		15:32	0.0	14.6	3.6	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:58	0.0	21.7	0.1	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	11/15/2012	13:58	0.0	21.9	0.0	0.0	0	30s - 40s	none	
5173 / 1 / B / Firing Range with filter		15:43 15:43	0.0 0.0	4.3 4.5	9.5 9.8	0.0 0.0	0			
5173 / 1 / B / Firing Range without filter 5173 / 1 / Storage area ambient air, with filter		13:15	0.0	21.8	0.2	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:15	0.0	21.4	0.0	0.0	Ö			
5173 / 1 / C / Storage area with filter		15:45	92.6	1.4	2.5	1.0	21			
5173 / 1 / C / Storage area without filter		15:45	92.6	1.4	3.4	1.3	27			
5173 / 1 / A / Office area ambient air with filter		13:03	0.0	20.9	0.1	0.0	0			
5173 / 1 / A / Office area ambient air without filter		13:03	0.0	20.9	0.1	0.0	0			
5173 / 1 / A / Office area with filter 5173 / 1 / A / Office area without filter		14:45 14:45	0.0 0.0	13.8 13.9	3.2 3.6	0.0 0.0	0 0			
5173 / 1 / A / Office area without filter 5173 / 1 / B / Firing Range ambient air with filter		13:09	0.0	21.0	0.1	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter		13:09	0.0	21.1	0.0	0.0	ő		_	
5173 / 1 / B / Firing Range with filter	11/20/2012	14:50	0.0	4.6	9.7	0.0	0	50s	Trace	
5173 / 1 / B / Firing Range without filter		14:50	0.0	4.7	10.1	0.0	0			
5173 / 1 / Storage area ambient air, with filter		13:08	0.0	20.9	0.1	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:08	0.0	21.0	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		14:53	183.7	13.6	1.3	0.4	9			
5173 / 1 / C / Storage area without filter 5173 / 1 / A / Office area ambient air with filter		14:53 12:31	183.7 0.6	10.8 21.3	1.8 0.1	0.0	16 0			
5173 / 1 / A / Office area ambient air with mer		12:31	0.6	21.3	0.1	0.0	0			
5173 / 1 / A / Office area with filter		14:05	1.8	13.1	4.0	0.0	Ö			
5173 / 1 / A / Office area without filter		14:05	1.8	13.3	4.1	0.0	ō			
5173 / 1 / B / Firing Range ambient air with filter		12:40	0.4	21.2	0.1	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	11/29/2012	12:40	0.4	21.2	0.1	0.0	0	40s - 50s	None	
5173 / 1 / B / Firing Range						nge oper				
5173 / 1 / Storage area ambient air, with filter		12:37	0.3	21.3	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		12:37 14:23	0.3 120.4	21.3 2.4	0.0	0.0	0 22			
5173 / 1 / C / Storage area with filter 5173 / 1 / C / Storage area without filter		14:23	120.4	2.4	2.8 3.0	1.1 1.5	30			
5173 / 1 / A / Office area ambient air with filter		13:26	0.0	21.3	0.0	0.0	0			
5173 / 1 / A / Office area ambient air without filter		13:26	0.0	21.2	0.1	0.0	Ō			
5173 / 1 / A / Office area with filter		15:29	0.1	13.6	4.5	0.0	0			
5173 / 1 / A / Office area without filter		15:29	0.1	13.7	4.2	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		14:17	0.0	21.0	0.1	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	12/4/2012	14:17 15:34	0.0 0.2	21.0 9.1	0.0 7.1	0.0 0.0	0 0	50s	rainy (~0.3 inches)	
5173 / 1 / B / Firing Range with filter 5173 / 1 / B / Firing Range without filter		15:34	0.2	9.1	7.1	0.0	0			
5173 / 1 / Storage area ambient air, with filter		13:07	0.0	21.4	0.0	0.0	Ö			
5173 / 1 / Storage area ambient air, without filter		13:07	0.0	21.0	0.0	0.0	ō			
5173 / 1 / C / Storage area with filter		15:39	66.6	1.6	4.2	1.0	19			
5173 / 1 / C / Storage area without filter		15:39	66.6	1.6	3.6	1.3	27			
5173 / 1 / A / Office area ambient air with filter		14:18	0.0	22.0	0.0	0.0	0			
5173 / 1 / A / Office area ambient air without filter		14:18	0.0 0.0	22.0 14.9	0.0	0.0	0.0 1 U			
5173 / 1 / A / Office area with filter 5173 / 1 / A / Office area without filter		15:17 15:17	0.0	14.9	2.5 4.2	0.1 U 0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:54	0.0	22.0	0.0	0.1 U	2 U			
5173 / 1 / B / Firing Range ambient air without filter	40/40/0040	13:54	0.0	21.8	0.1	0.0	0	1		
5173 / 1 / B / Firing Range with filter	12/13/2012	15:23	1.6	6.4	8.8	0.0	1 U	40s	sunny	
5173 / 1 / B / Firing Range without filter		15:23	1.6	6.1	9.7	0.1	1			
5173 / 1 / Storage area ambient air, with filter		13:58	0.0	22.0	0.1	0.1 U	2 U			
5173 / 1 / Storage area ambient air, without filter		13:58	0.0	22.1	0.1	0.0	0			
5173 / 1 / C / Storage area with filter		15:34	109.7	2.0	2.6	1.0	19			
5173 / 1 / C / Storage area without filter 5173 / 1 / A / Office area ambient air with filter	1	15:34 13:55	109.7 0.0	1.9 21.7	3.2 0.1	0.0	25 0			
5173 / 1 / A / Office area ambient air without filter		13:55	0.0	21.6	0.1	0.0	o			
5173 / 1 / A / Office area with filter		14:41	0.8	14.9	3.8	0.0	ō			
5173 / 1 / A / Office area without filter		14:41	0.8	14.7	4.6	0.0	Ō			
5173 / 1 / B / Firing Range ambient air with filter		14:04	0.0	21.5	0.1	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	12/18/2012	14:04	0.0	21.6	0.1	0.0	0	40s	none	
5173 / 1 / B / Firing Range with filter		14:51	0.7	6.2	9.3	0.0	0			
5173 / 1 / B / Firing Range without filter		14:51	0.7	6.4	9.7	0.0	0			
5173 / 1 / Storage area ambient air, with filter 5173 / 1 / Storage area ambient air, without filter		13:58 13:58	0.0 0.0	21.4 21.4	0.3 0.4	0.0 0.0	0			
		14:56	114.9	1.3	3.8	0.0	19			
5173 / 1 / C / Storage area with filter			117.0	1.0	0.0	1.3	26	I	i	

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Sample Location:			PID	O ₂	CO ₂	CH₄	LEL	Ambient	Summary of Recent	Barometric
Parcel / Building / Probe	Date:	Time	(ppm)	(%)	(%)	(%)	(%)	Temperature (°F)		Pressure (hPa)
5173 / 1 / A / Office area ambient air with filter		13:05	0.0	21.0	0.0	0.0	0			
5173 / 1 / A / Office area ambient air without filter		13:05	0.0	21.0	0.0	0.0	0			
5173 / 1 / A / Office area with filter		14:15	0.7	15.4	4.1	0.0	0			
5173 / 1 / A / Office area without filter		14:15	0.7	15.5	4.1	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:03	0.0	21.1	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	12/27/2012	13:03	0.0	21.1	0.0	0.0	0	30s	none	
5173 / 1 / B / Firing Range with filter		14:25	0.5	8.1	8.7	0.0	0			
5173 / 1 / B / Firing Range without filter		14:25 13:00	0.5 0.0	7.8 21.0	9.0 0.0	0.0	0			
5173 / 1 / Storage area ambient air, with filter 5173 / 1 / Storage area ambient air, without filter		13:00	0.0	21.0	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		14:35	75.0	16.5	1.1	0.3	5			
5173 / 1 / C / Storage area without filter		14:35	75.0	12.0	1.5	0.5	10			
5173 / 1 / A / Office area ambient air with filter		12:50	0.1	21.2	0.1	0.0	0			
5173 / 1 / A / Office area ambient air without filter		12:50	0.1	21.2	0.1	0.0	0			
5173 / 1 / A / Office area with filter		14:15	0.3	17.9	2.4	0.0	0			
5173 / 1 / A / Office area without filter		14:15	0.3	16.9	3.2	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		12:57	0.0	21.2	0.0	0.0	0	1		
5173 / 1 / B / Firing Range ambient air without filter	1/3/2013	12:57	0.0	21.2	0.0	0.0	0	10s - 20s	None	
5173 / 1 / B / Firing Range with filter		14:26	0.4	8.7	8.4	0.0	0 0			
5173 / 1 / B / Firing Range without filter		14:26 12:55	0.4 0.0	8.7	8.4	0.0	0			
5173 / 1 / Storage area ambient air, with filter 5173 / 1 / Storage area ambient air, without filter		12:55	0.0	21.3 21.3	0.0 0.0	0.0 0.0	0			
5173 / 1 / C / Storage area with filter		14:34	90.4	4.0	2.6	0.7	15			
5173 / 1 / C / Storage area without filter		14:34	90.4	2.5	2.7	1.1	22			
5173 / 1 / A / Office area ambient air with filter		13:28	0.0	21.1	0.1	0.0	0			
5173 / 1 / A / Office area ambient air without filter		13:28	0.0	21.1	0.0	0.0	0			
5173 / 1 / A / Office area with filter		14:24	1.0	16.0	3.7	0.0	0			
5173 / 1 / A / Office area without filter		14:24	1.0	16.0	3.9	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:26	0.1	20.8	0.2	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	1/10/2013	13:26	0.1	21.0	0.1	0.0	0	30s	Trace	
5173 / 1 / B / Firing Range with filter		14:30	0.9	9.1	7.8	0.0	0			
5173 / 1 / B / Firing Range without filter		14:30	0.9	9.4	7.9	0.0	0			
5173 / 1 / Storage area ambient air, with filter		13:24	0.1 0.1	21.0 21.1	0.1 0.0	0.0 0.0	0			
5173 / 1 / Storage area ambient air, without filter 5173 / 1 / C / Storage area with filter		13:24 14:45	52.2	3.1	3.0	0.6	12			
5173 / 1 / C / Storage area withhiter		14:45	52.2	3.2	2.8	0.9	17			
5173 / 1 / A / Office area ambient air with filter		13:10	0.0	21.3	0.1	0.0	0			
5173 / 1 / A / Office area ambient air without filter		13:10	0.0	21.4	0.0	0.0	Ö			
5173 / 1 / A / Office area with filter		14:00	1.0	13.5	4.2	0.0	ō	1		
5173 / 1 / A / Office area without filter		14:00	1.0	13.5	4.3	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:08	0.1	21.3	0.1	0.0	0	1		
5173 / 1 / B / Firing Range ambient air without filter	1/17/2013	13:08	0.1	21.3	0.0	0.0	0	30s	None	
5173 / 1 / B / Firing Range with filter		14:07	0.3	8.9	8.5	0.0	0			
5173 / 1 / B / Firing Range without filter		14:07	0.3	8.9	8.7	0.0	0			
5173 / 1 / Storage area ambient air, with filter		13:06	0.1	21.3	0.1	0.0	0 0			
5173 / 1 / Storage area ambient air, without filter 5173 / 1 / C / Storage area with filter		13:06 14:21	0.1 92.9	21.3 1.5	0.0 3.3	0.0	0 16	1		
5173 / 1 / C / Storage area with filter		14:21	92.9	1.6	3.3 3.2	1.0	21			
5173 / 1 / A / Office area ambient air with filter		13:45	0.0	22.2	0.1	0.0	0			
5173 / 1 / A / Office area ambient air with miter		13:45	0.0	21.9	0.1	0.0	ő	1		
5173 / 1 / A / Office area with filter		15:56	0.0	16.2	2.9	0.0	Ö			
5173 / 1 / A / Office area without filter		15:56	0.0	15.9	4.1	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:36	0.0	22.4	0.0	0.0	0	1		
5173 / 1 / B / Firing Range ambient air without filter	1/24/2013	13:36	0.0	22.4	0.0	0.0	0	10 - 20s	None	
5173 / 1 / B / Firing Range with filter	1/2-1/2013	16:01	0.4	7.2	8.2	0.0	0	10 203	INOTIC	
5173 / 1 / B / Firing Range without filter		16:01	0.4	6.7	9.0	0.0	0			
5173 / 1 / Storage area ambient air, with filter		13:25	0.0	21.3	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:25	0.0	20.9	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		16:08	53.0	2.5	2.8	0.6	12			
5173 / 1 / C / Storage area without filter		16:08	53.0	1.9	2.8	0.9	18	I		

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Sample Location:			PID	0,	CO ₂	CH₄	LEL	Ambient	Summary of Recent	Barometric
Parcel / Building / Probe	Date:	Time	(ppm)	(%)	(%)	(%)	(%)	Temperature (°F)	Precipitation	Pressure (hPa)
5173 / 1 / A / Office area ambient air with filter	Date.	13:33	0.0	22.1	0.1	0.0	- (//)	, , ,		· , ,
5173 / 1 / A / Office area ambient air without filter		13:33	0.0	22.2	0.1	0.0	ō			
5173 / 1 / A / Office area with filter		15:35	0.1	15.7	2.6	0.0	0			
5173 / 1 / A / Office area without filter		15:35	0.1	14.8	4.4	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		14:10	0.0	22.3	0.1	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter 5173 / 1 / B / Firing Range with filter	1/31/2013	14:10 15:41	0.0 0.2	22.6 6.4	0.1 9.0	0.0 0.0	0	10 - 20s	None	
5173 / 1 / B / Firing Range with filter		15:41	0.2	6.6	9.0	0.0	0			
5173 / 1 / Storage area ambient air, with filter		13:17	0.2	22.1	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:17	0.0	21.8	0.1	0.0	0			
5173 / 1 / C / Storage area with filter		15:46	76.7	1.9	4.3	0.6	12			
5173 / 1 / C / Storage area without filter		15:46	76.7	1.6	3.2	0.9	19			
5173 / 1 / A / Office area ambient air with filter		14:07	0.4	21.8	0.1	0.0	0			
5173 / 1 / A / Office area ambient air without filter		14:07	0.4 0.8	21.8	0.2	0.0	0			
5173 / 1 / A / Office area with filter 5173 / 1 / A / Office area without filter		15:09 15:09	0.8	15.4 15.0	3.5 4.2	0.0 0.0	0			
5173 / 1 / B / Firing Range	2/7/2013		cessible o					20s - 50s	none	
5173 / 1 / Storage area ambient air, with filter		13:54	0.2	21.4	0.1	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:54	0.2	21.2	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		15:21	135.7	2.0	3.4	0.6	13			
5173 / 1 / C / Storage area without filter		15:21	135.7	1.5	3.0	0.9	19			
5173 / 1 / A / Office area ambient air with filter		13:01	0.1	21.2	0.0	0.0	0			
5173 / 1 / A / Office area ambient air without filter 5173 / 1 / A / Office area with filter		13:01 14:30	0.1 0.9	21.2 15.4	0.1 3.6	0.0 0.0	0			
5173 / 1 / A / Office area with filter		14:30	0.9	15.4	4.3	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:03	0.0	21.2	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	0/40/0040	13:03	0.0	21.2	0.0	0.0	Ö	00 40		
5173 / 1 / B / Firing Range with filter	2/12/2013	14:23	0.4	9.4	7.9	0.0	0	30s - 40s	none	
5173 / 1 / B / Firing Range without filter		14:23	0.4	9.1	7.5	0.0	0			
5173 / 1 / Storage area ambient air, with filter		12:59	0.0	21.2	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		12:59	0.0	21.2	0.0	0.0	0			
5173 / 1 / C / Storage area with filter 5173 / 1 / C / Storage area without filter		14:38 14:38	109.2 109.2	1.9 3.0	3.3 3.0	0.5 0.7	10 13			
5173 / 1 / A / Office area ambient air with filter		13:07	0.0	22.3	0.0	0.7	0			
5173 / 1 / A / Office area ambient air without filter		13:07	0.0	22.3	0.1	0.0	Ö			
5173 / 1 / A / Office area with filter			0.9	16.0	3.4	0.0	0			
5173 / 1 / A / Office area without filter			0.9	16.0	4.0	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:09	0.1	22.3	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	2/21/2013	13:09	0.1	22.3	0.1	0.0	0	20s	trace	
5173 / 1 / B / Firing Range 5173 / 1 / Storage area ambient air, with filter		13:12	cessible o 0.1	22.2	ning Kar 0.0	nge oper 0.0	auon O			
5173 / 1 / Storage area ambient air, withhiter		13:12	0.1	22.3	0.1	0.0	0			
5173 / 1 / C / Storage area with filter		10.12	90.5	1.8	3.0	0.7	13			
5173 / 1 / C / Storage area without filter			90.5	2.0	2.9	0.9	18			
5173 / 1 / A / Office area ambient air with filter		13:03	0.0	21.1	0.1	0.0	0			
5173 / 1 / A / Office area ambient air without filter		13:03	0.0	21.1	0.1	0.0	0			
5173 / 1 / A / Office area with filter		14:31	0.6	14.7	4.0	0.0	0			
5173 / 1 / A / Office area without filter 5173 / 1 / B / Firing Range ambient air with filter		14:31 13:21	0.6 0.0	14.7 21.3	4.4 0.0	0.0 0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	2/28/2013	13:21	0.0	21.3	0.0	0.0	Ö	30s - 40s	~1 inch	
5173 / 1 / B / Firing Range			cessible o							
5173 / 1 / Storage area ambient air, with filter		13:15	0.0	21.2	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:15	0.0	21.2	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		14:36	63.0	2.3	3.2	0.6	13			
5173 / 1 / C / Storage area without filter		14:36	63.0	2.4	3.1	8.0	16			
5173 / 1 / A / Office area ambient air with filter	1	14:00 14:00	0.4 0.4	21.2 21.2	0.1 0.1	0.0	0 0			
5173 / 1 / A / Office area ambient air without filter 5173 / 1 / A / Office area with filter	1	14:00	0.4	21.2 16.4	U.1 2.4	0.0	0			
5173 / 1 / A / Office area with filter		14:13	0.0	15.2	4.4	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter	1	13:50	0.4	21.6	0.1	0.0	Ö			
5173 / 1 / B / Firing Range ambient air without filter	3/7/2013	13:50	0.4	21.6	0.1	0.0	O	30s	None	
5173 / 1 / B / Firing Range with filter	3///2013	14:17	0.0	9.1	7.1	0.0	0	308	NOTIE	
5173 / 1 / B / Firing Range without filter	1	14:17	0.0	6.9	9.8	0.0	0			
5173 / 1 / Storage area ambient air, with filter	1	13:40	0.3	21.5	0.3	0.0	0			
5173 / 1 / Storage area ambient air, without filter 5173 / 1 / C / Storage area with filter		13:40 14:21	0.3 47.0	21.5 5.1	0.1 5.0	0.0 0.4	0 8			
51/3 / 1 / C / Storage area with filter 51/3 / 1 / C / Storage area without filter	1	14:21	47.0 47.0	5.1 3.1	5.U 3.1	0.4	8 15			
OTTOT TO TOLORAGE ALEA WILLIOUS TILLET		14.21	47.0	J. I	J. I	0.0	10	l	l l	

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Sample Location:			PID	O ₂	CO2	CH₄	LEL	Ambient	Summary of Recent	Barometric
Parcel / Building / Probe	Date:	Time	(ppm)	(%)	(%)	(%)	(%)	Temperature (°F)		Pressure (hPa)
5173 / 1 / A / Office area ambient air with filter	Dute.	13:04	0.0	21.1	0.1	0.0	- (//)	, , ,	·	` ,
5173 / 1 / A / Office area ambient air without filter		13:04	0.0	21.2	0.1	0.0	Ö			
5173 / 1 / A / Office area with filter		14:36	0.0	15.2	4.1	0.0	0			
5173 / 1 / A / Office area without filter		14:36	0.0	15.2	4.6	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:33	0.0	21.8	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter 5173 / 1 / B / Firing Range with filter	3/14/2013	13:33 14:30	0.0 0.1	21.7 9.4	0.0 9.1	0.0 0.0	0	20s - 40s	None	
5173 / 1 / B / Firing Range with liter		14:30	0.1	9.4	8.8	0.0	0			
5173 / 1 / Storage area ambient air, with filter		13:18	0.0	21.3	0.0	0.0	Ö			
5173 / 1 / Storage area ambient air, without filter		13:18	0.0	21.4	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		14:53	80.1	2.3	3.0	0.4	8			
5173 / 1 / C / Storage area without filter		14:53	80.1	2.4	3.3	0.6	13			
5173 / 1 / A / Office area ambient air with filter 5173 / 1 / A / Office area ambient air without filter		13:40 13:40	0.0 0.0	21.2 21.3	0.1 0.1	0.0 0.0	0			
5173 / 1 / A / Office area with filter		14:04	0.0	15.1	4.8	0.0	0			
5173 / 1 / A / Office area without filter		14:04	0.0	15.1	4.4	0.0	ō			
5173 / 1 / B / Firing Range ambient air with filter		13:15	0.0	21.7	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	3/21/2013	13:15	0.0	21.8	0.0	0.0	0	20s - 30s	Trace	
5173 / 1 / B / Firing Range with filter		13:57	0.0	6.7	9.5	0.0	0			
5173 / 1 / B / Firing Range without filter		13:57 13:17	0.0 0.0	6.8 21.8	9.8 0.0	0.0 0.0	0			
5173 / 1 / Storage area ambient air, with filter 5173 / 1 / Storage area ambient air, without filter		13:17	0.0	21.8	0.0	0.0	0	1		
5173 / 1 / C / Storage area with filter		14:11	85.5	4.7	3.6	0.5	11			
5173 / 1 / C / Storage area without filter		14:11	85.5	2.5	3.3	0.8	17			
5173 / 1 / A / Office area ambient air with filter		12:41	0.0	21.3	0.0	0.0	0			
5173 / 1 / A / Office area ambient air without filter		12:41	0.0	21.3	0.0	0.0	0			
5173 / 1 / A / Office area with filter 5173 / 1 / A / Office area without filter		13:21	0.0 0.0	15.4	5.4	0.0 0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:21 12:42	0.0	15.5 21.3	4.4 0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	0,000,00040	12:42	0.0	21.3	0.0	0.0	Ö	00 40		
5173 / 1 / B / Firing Range with filter	3/28/2013	13:16	0.0	7.3	9.1	0.0	0	30s - 40s	None	
5173 / 1 / B / Firing Range without filter		13:16	0.0	7.2	9.8	0.0	0			
5173 / 1 / Storage area ambient air, with filter		12:44	0.0	21.3	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		12:44	0.0	21.3	0.0	0.0 0.6	0 12			
5173 / 1 / C / Storage area with filter 5173 / 1 / C / Storage area without filter		13:27 13:27	109.0 109.0	3.1 3.3	3.4 3.2	0.8	16			
5173 / 1 / A / Office area ambient air with filter		13:27	0.0	21.3	0.0	0.0	0			
5173 / 1 / A / Office area ambient air without filter		13:27	0.0	21.3	0.0	0.0	0			
5173 / 1 / A / Office area with filter		14:31	0.4	16.1	3.3	0.0	0			
5173 / 1 / A / Office area without filter		14:31	0.4	15.9	3.8	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter 5173 / 1 / B / Firing Range ambient air without filter	4/4/2013	13:32 13:32	0.0 0.0	21.2 21.2	0.0 0.0	0.0 0.0	0	30s - 50s	None	
5173 / 1 / B / Firing Range	4,4,2013		cessible o				_	30s - 30s	None	
5173 / 1 / Storage area ambient air, with filter		13:31	0.0	21.2	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:31	0.0	21.2	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		14:38	87.2	11.7	1.8	0.4	7			
5173 / 1 / C / Storage area without filter		14:38	87.2	13.3	1.6	0.4	8			
5173 / 1 / A / Office area ambient air with filter 5173 / 1 / A / Office area ambient air without filter		13:23 13:23	0.0 0.0	20.4 20.5	0.0 0.0	0.0 0.0	0	1		
5173 / 1 / A / Office area ambient air without filter		14:19	1.1	20.5 15.5	3.8	0.0	0	1		
5173 / 1 / A / Office area without filter		14:19	1.1	15.6	4.2	0.0	Ö			
5173 / 1 / B / Firing Range ambient air with filter		13:30	0.0	20.6	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	4/9/2013	13:30	0.0	20.6	0.0	0.0	0	50s - 80s	None	
5173 / 1 / B / Firing Range with filter		14:26	1.3	6.5	9.5	0.0	0			
5173 / 1 / B / Firing Range without filter		14:26 13:31	1.3 0.0	10.0 20.6	6.6 0.0	0.0 0.0	0			
5173 / 1 / Storage area ambient air, with filter 5173 / 1 / Storage area ambient air, without filter		13:31	0.0	20.6	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		14:31	102.1	3.5	3.8	0.5	11			
5173 / 1 / C / Storage area without filter		14:31	102.1	3.7	3.6	0.7	14			
5173 / 1 / A / Office area ambient air with filter		12:30	0.7	20.6	0.0	0.0	0			
5173 / 1 / A / Office area ambient air without filter		12:30	0.7	20.6	0.0	0.0	0	1		
5173 / 1 / A / Office area with filter 5173 / 1 / A / Office area without filter		14:15 14:15	1.1	15.2 15.2	4.3 4.5	0.0 0.0	0			
5173 / 1 / A / Oπice area without filter 5173 / 1 / B / Firing Range ambient air with filter		12:37	1.1 0.0	15.2 20.4	4.5 0.0	0.0	0	1		
5173 / 1 / B / Firing Range ambient air without filter	4/18/2013	12:37	0.0	20.4	0.0	0.0	0	60s - 80s	None	
5173 / 1 / B / Firing Range			cessible o							
5173 / 1 / Storage area ambient air, with filter		12:35	0.1	20.4	0.2	0.0	0	1		
5173 / 1 / Storage area ambient air, without filter		12:35	0.1	20.4	0.1	0.0	0	1		
5173 / 1 / C / Storage area with filter 5173 / 1 / C / Storage area without filter		14:21	134.9	1.6	5.2	0.6	13 18			
101101 11 C1 Storage area without filter	l	14:21	134.9	1.7	5.3	0.9	10	L		

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Price Building Probe Procipitation Pressure Procipitation Procipita	Sample Leastion:	1		DID			CH			la (n)	
1,000	Sample Location:	B.4		PID	O ₂	CO ₂	CH₄	LEL	Ambient	Summary of Recent	Barometric Pressure (hPa)
14.00 0.0 2.14 0.1 0.0 0 0 0 0 0 0 0 0		Date:							Temperature (1)	1 recipitation	r ressure (iii a)
1873 1 / A Coffice area with filter 14.55 0.3 16.1 3.0 0.0 0 0 0 0 0 0 0 0											
14.55 0.3 15.9 4.0 0.0 0 0 0 0 0 0 0 0											
1373 1 8 Friing Range ambient at with filter 1352 0.0 20.6 0.1 0.0 0 50s - 60s None 1373 1 8 Friing Range awbit iter 1400 0.0 21.3 0.0 0.0 0 0 0 0 0 0 0											
173711 / B / Fring Range with filter 14/59 0.2 6.9 10.8 0.0 0 0 0 0 0 0 0 0			13:52	0.0	20.6	0.1	0.0	0			
17.37 17 18 Firning Range without litter 14.59 0.2 0.9 0.0 0 0 0 0 0 0 0 0		4/23/2013							50s - 60s	None	
57871 Storage area with litter 14:00		7,20,2010							003-003	None	
1737 17 Storage area without filter 1504 778 3.5 4.6 0.9 10 10 10 10 10 10 10 1											
1573 ft C Storage area with filter 1504 77.6 3.5 4.1 0.5 10											
15/73 1 / A Critice area methout filter 15/04 77.6 3.5 4.6 0.8 16 15/73 1 / A Critice area methoet at with titler 13.99 0.0 21.3 0.0 0.0 0 0 0 0 0 0 0											
13.39 0.0 21.3 0.0 0.0 0 0 0 0 0 0 0											
13-39 0.0 21.3 0.0 0											
5/73 1 / A / Office area with filter 14/58 0.0 16/5 3.8 0.0 0 0											
13.73 7.1 B / Firing Range armstein at with filter 13.76 0.0 20.2 0.0								0			
5/73 1 B Firing Range arth filter 4/30/2013 13/16 0.0 20.2 0.0 0.0 0 40s - 70s None 5/73 1 B Firing Range with filter 15/02 0.5 7.1 8 0.0 0.0 0 0 5/73 1 1 1 1 1 1 1 1 1	5173 / 1 / A / Office area without filter		14:58	0.0	16.6	3.8	0.0	0			
	5173 / 1 / B / Firing Range ambient air with filter		13:16	0.0	20.1	0.0	0.0				
51371 B Fining Range with nature 15:02		4/30/2013						_	40s - 70s	None	
S173 / 1 / Storage area ambient air, with filter 13.21		1,00,2010							100 100	110110	
1321											
1733 1 C Storage area with filter 1506 80.1 2.5 5.8 0.5 10 10 10 10 10 10 10 1											
15/73 / 1 / 1 / 1 / 1 / 2 15 / 2 2 3 4 9 0.8 17											
13.55 0.0 20.6 0.0 0											
5/173 / 1 / A / Office area ambient air without filter 14.49											
14.49											
13:19				0.0			0.0	0			
13.11 / B / Firing Range ambient air without filter 5/8/2013 13.19 0.0 19.6 0.0 0.0 0 50s - 70s None 173 / 1 / B / Firing Range with filter 14.51 0.4 7.0 10.3 0.0 0 0 50s - 70s None 173 / 1 / B / Firing Range without filter 14.51 0.4 7.0 10.3 0.0 0 0			14:49	0.0	17.3	2.8	0.0				
14.51 1.4 Firing Range with filter 14.51 0.4 7.0 10.3 0.0 0 0 0 0 0 0 0 0	, ,										
S173 / 1 / B / Firing Range without filter 14:51		5/9/2013							50s - 70s	None	
5173 1 Storage area ambient air, with filter 13:27								_			
S173 1 Storage area ambient air, without filter											
5173 / 1 / C / Storage area with filter											
5173 1 A Office area ambient air without filter 12:30											
5173 1 A Office area ambient air with filter 12:30											
5173 / 1 / A / Office area with filter 13:48 1.0 18.1 2.7 0.0 0 13:48 1.0 17.9 3.1 0.0 0	5173 / 1 / A / Office area ambient air with filter			0.0	20.7	0.0	0.0	0			
5173 / 1 / A / Office area without filter 13:48 1.0 17.9 3.1 0.0 0 0 12:33 0.0 20.7 0.1 0.0 0 0 0 0 0 0 0 0	5173 / 1 / A / Office area ambient air without filter		12:30	0.0	20.7	0.1	0.0				
5173 / 1 / B / Firing Range ambient air with filter 5/16/2013 12:33 0.0 20.7 0.1 0.0 0 40s - 80s ~1 inch 5173 / 1 / B / Firing Range ambient air without filter 12:31 0.0 20.7 0.0 0.0 0 40s - 80s ~1 inch 5173 / 1 / Storage area ambient air, with filter 12:31 0.0 20.7 0.0 0.0 0 5173 / 1 / C / Storage area without filter 13:59 120.3 1.8 6.5 0.8 15 5173 / 1 / A / Office area ambient air without filter 14:06 0.0 20.5 0.0 0.0 0 5173 / 1 / A / Office area ambient air without filter 15:37 0.0 18.8 1.8 0.0 0 0 5173 / 1 / B / Firing Range ambient air without filter 15:37 0.0 18.8 1.8 0.0 0 0 5173 / 1 / B / Firing Range ambient air without filter 15:37 0.0 18.7 2.5 0.0 0 0 5173 / 1 / B / Firing Range ambient air without filter 15:37 0.0 18.7 2.5 0.0 0 0 0 5173 / 1 / B / Firing Range without filter 15:41 0.9 6.8 12.6 0.0 0 0 5173 / 1 / Storage area ambient air, without filter 13:58 0.0 20.0 0.0 0 0 0 5173 / 1 / Storage area ambient air, without filter 13:58 0.0 20.0 0.0 0 0 0 0 0 0 0											
5/13 / 1 / B / Firing Range ambient air without filter 5/16/2013 12:33 0.0 20.7 0.0 0.0 0 40s - 80s ~1 inch 5/13 / 1 / B / Firing Range area ambient air, with filter 12:31 0.0 20.7 0.0 0.0 0 0 0 0 0 0 0											
5173 / 1 / B / Firing Range Inaccessible due to Firing Range operation 12:31 1.0.0 20.7 0.0 0.		E/16/0012							40- 90-	4 :	
5173 / 1 / Storage area ambient air, with filter 12:31 0.0 20.7 0.0 0.0 0 0 0 0 0 0 0		5/16/2013							40S - 60S	~1 inch	
5173 / 1 / Storage area ambient air, without filter 13:59 120.3 1.8 6.5 0.8 15 15 15 173 / 1 / C / Storage area with filter 13:59 120.3 1.5 6.6 1.1 22											
5173 / 1 / C / Storage area with filter 13:59 120.3 1.8 6.5 0.8 15 5173 / 1 / C / Storage area without filter 13:59 120.3 1.5 6.6 1.1 22 5173 / 1 / A / Office area ambient air with filter 14:06 0.0 20.5 0.0 0.0 0 0 5173 / 1 / A / Office area ambient air without filter 15:37 0.0 18.8 1.8 0.0 0 0 5173 / 1 / A / Office area with filter 15:37 0.0 18.8 1.8 0.0 0 0 5173 / 1 / B / Firing Range ambient air with filter 15:37 0.0 18.8 1.8 0.0 0 0 0 0 0 0 0 0								_			
5173 / 1 / A / Office area without filter 13:59 12.0 1.5 6.6 1.1 22											
5173 / 1 / A / Office area ambient air without filter 15:37 0.0 18.8 1.8 0.0 0 0 0 0 0 0 0 0						6.6	1.1	22			
5173 / 1 / A / Office area with filter 15:37 0.0 18.8 1.8 0.0 0 0 0 0 0 0 0 0	5173 / 1 / A / Office area ambient air with filter		14:06	0.0	20.5	0.0	0.0	0			
5173 / 1 / A / Office area without filter 15:37 0.0 18.7 2.5 0.0 0 0 5173 / 1 / B / Firing Range ambient air with filter 5173 / 1 / B / Firing Range ambient air without filter 5173 / 1 / B / Firing Range without filter 5173 / 1 / B / Firing Range without filter 5173 / 1 / B / Firing Range without filter 51841 0.9 6.7 12.1 0.0 0 40s - 80s ~0.2 inch 15:41 0.9 6.8 12.6 0.0 0 0 0 0 0 0 0 0 0											
5173 / 1 / B / Firing Range ambient air with filter 5/21/2013 13:50 0.0 19.2 0.0 0.0 0 0.0 0		1									
5173 / 1 / B / Firing Range ambient air without filter 5/21/2013 13:50											
5/21/2/13 15:41 0.9 6.7 12.1 0.0 0 40s - 80s -0.2 inch											
5173 / 1 / B / Firing Range without filter 15:41 0.9 6.8 12.6 0.0 0 5173 / 1 / Storage area ambient air, with filter 13:58 0.0 20.0 0.0 0.0 0 5173 / 1 / Storage area ambient air, without filter 13:58 0.0 20.0 0.0 0.0 0 5173 / 1 / C / Storage area with filter 15:44 79.5 3.1 7.0 0.6 13 5173 / 1 / C / Storage area without filter 15:44 79.5 3.1 6.6 1.0 20 5173 / 1 / A / Office area ambient air with filter 12:20 0.0 20.7 0.0 0 5173 / 1 / A / Office area with filter 12:20 0.0 20.7 0.0 0 5173 / 1 / A / Office area with filter 13:48 1.7 18.6 2.0 0.0		5/21/2013							40s - 80s	~0.2 inch	
5173 / 1 / Storage area ambient air, with filter 13:58 0.0 20.0 0.0 0.0 0 5173 / 1 / Storage area ambient air, without filter 13:58 0.0 20.0 0.0 0.0 0 5173 / 1 / C / Storage area with filter 15:44 79.5 3.1 7.0 0.6 13 5173 / 1 / A / Office area ambient air with filter 15:44 79.5 3.1 6.6 1.0 20 5173 / 1 / A / Office area ambient air without filter 12:20 0.0 20.7 0.0 0 0 5173 / 1 / A / Office area ambient air without filter 12:20 0.0 20.7 0.0 0 0 5173 / 1 / A / Office area with filter 13:48 1.7 18.6 2.0 0.0 0											
5173 / 1 / Storage area ambient air, without filter 13:58 0.0 20.0 0.0 0.0 0 5173 / 1 / C / Storage area with filter 15:44 79.5 3.1 7.0 0.6 13 5173 / 1 / A / Office area ambient air without filter 15:44 79.5 3.1 6.6 1.0 20 5173 / 1 / A / Office area ambient air without filter 12:20 0.0 20.7 0.0 0.0 0 5173 / 1 / A / Office area with filter 12:20 0.0 20.7 0.0 0.0 0 5173 / 1 / A / Office area with filter 13:48 1.7 18.6 2.0 0.0 0											
5173 / 1 / C / Storage area with filter 15:44 79.5 3.1 7.0 0.6 13 5173 / 1 / C / Storage area without filter 15:44 79.5 3.1 6.6 1.0 20 5173 / 1 / A / Office area ambient air without filter 12:20 0.0 20.7 0.0 0 5173 / 1 / A / Office area ambient air without filter 12:20 0.0 20.7 0.0 0 5173 / 1 / A / Office area with filter 13:48 1.7 18.6 2.0 0.0 0											
5173 / 1 / C / Storage area without filter 15:44 79.5 3.1 6.6 1.0 20 5173 / 1 / A / Office area ambient air with filter 12:20 0.0 20.7 0.0 0 5173 / 1 / A / Office area ambient air without filter 12:20 0.0 20.7 0.0 0 5173 / 1 / A / Office area with filter 13:48 1.7 18.6 2.0 0.0 0		1									
5173 / 1 / A / Office area ambient air with filter 12:20 0.0 20.7 0.0 0.0 0 5173 / 1 / A / Office area ambient air without filter 12:20 0.0 20.7 0.0 0.0 0 5173 / 1 / A / Office area with filter 13:48 1.7 18.6 2.0 0.0 0		<u> </u>							<u> </u>	<u> </u>	
5173 / 1 / A / Office area with filter 13:48 1.7 18.6 2.0 0.0 0	5173 / 1 / A / Office area ambient air with filter		12:20	0.0							
		1									
151 /3 / 1 / A / Office area without filter 13:48 1.7 18.4 2.3 0.0 0		1									
	5173 / 1 / A / Office area without filter	1	13:48	1.7	18.4	2.3					
5173 / 1 / B / Firing Range ambient air with filter 12:34 0.0 20.8 0.0 0.0 0 50s - 80s ~1.3 inch		E/20/2012							E00 900	-1 2 inah	
5173 / 1 / B / Firing Range ambient air without filter		3/30/2013							SUS - 8US	~1.3 Incn	
		1									
12:30		1									
5/173/1/ C/ Storage area with filter 13:56 137.2 1.5 7.2 0.8 17		1									
5173 / 1 / C / Storage area without filter 13.56 137.2 1.6 7.4 1.2 25		1									

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Sample Location:			PID	O ₂	CO ₂	CH₄	LEL	Ambient	Summary of Recent	Barometric
Parcel / Building / Probe	Date:	Time	(ppm)	(%)	(%)	(%)	(%)	Temperature (°F)		Pressure (hPa)
5173 / 1 / A / Office area ambient air with filter	Date.	13:51	0.1	20.9	0.0	0.0	0	, ,	'	. ,
5173 / 1 / A / Office area ambient air without filter		13:51	0.1	20.9	0.1	0.0	Ö			
5173 / 1 / A / Office area with filter		15:28	1.8	19.2	2.0	0.0	0			
5173 / 1 / A / Office area without filter		15:28	1.8	19.0	2.2	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:56	0.0	20.9	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	6/6/2013	13:56	0.0	20.9	0.0	0.0	0	60s	0.25 inch	
5173 / 1 / B / Firing Range			cessible o							
5173 / 1 / Storage area ambient air, with filter		13:55 13:55	0.0 0.0	20.9 20.9	0.0 0.0	0.0 0.0	0			
5173 / 1 / Storage area ambient air, without filter 5173 / 1 / C / Storage area with filter		15:35	126.8	4.3	6.5	0.0	16			
5173 / 1 / C / Storage area with filter		15:35	126.8	4.4	6.8	1.1	23			
5173 / 1 / A / Office area ambient air with filter		15:25	0.0	20.8	0.0	0.0	0			
5173 / 1 / A / Office area ambient air without filter		15:25	0.0	20.8	0.0	0.0	0			
5173 / 1 / A / Office area with filter			0.0	18.6	2.5	0.0	0			
5173 / 1 / A / Office area without filter			0.0	19.9	0.4	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		15:00	0.0	20.9	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	6/13/2013	15:00	0.0	20.9	0.0	0.0	0	60s - 80s	1.55 inches	
5173 / 1 / B / Firing Range with filter			0.7	6.6	12.1	0.0	0			
5173 / 1 / B / Firing Range without filter		15.10	0.7	6.6	12.7	0.0	0			
5173 / 1 / Storage area ambient air, with filter 5173 / 1 / Storage area ambient air, without filter		15:13 15:13	0.0 0.0	20.8 20.8	0.0 0.0	0.0 0.0	0			
5173 / 1 / Storage area with filter	1	15.15	86.4	2.0	7.5	1.0	20			
5173 / 1 / C / Storage area without filter			86.4	1.9	7.6	1.4	25			
5173 / 1 / A / Office area ambient air with filter			0.0	21.0	0.0	0.0	0			
5173 / 1 / A / Office area ambient air without filter			0.0	21.0	0.0	0.0	0			
5173 / 1 / A / Office area with filter			0.9	19.4	0.7	0.0	0			
5173 / 1 / A / Office area without filter			0.9	19.2	1.7	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter			0.0	21.0	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	6/20/2013		0.0	21.0	0.0	0.0	0	50s - 80s	None	
5173 / 1 / B / Firing Range with filter			2.3	6.4	11.8	0.0	0			
5173 / 1 / B / Firing Range without filter 5173 / 1 / Storage area ambient air, with filter			2.3 0.0	6.5 20.9	12.5 0.1	0.0 0.0	0			
5173 / 1 / Storage area ambient air, withhiter			0.0	20.9	0.1	0.0	0			
5173 / 1 / C / Storage area with filter			235.1	2.5	7.6	1.0	21			
5173 / 1 / C / Storage area without filter			235.1	2.4	7.4	1.8	37			
5173 / 1 / A / Office area ambient air with filter		13:12	0.0	21.6	0.0	0.0	0			
5173 / 1 / A / Office area ambient air without filter		13:12	21.5	0.0	0.0	0.0	0			
5173 / 1 / A / Office area with filter		14:23	0.2	19.8	0.7	0.0	0			
5173 / 1 / A / Office area without filter		14:23	0.2	19.6	1.1	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:02	0.0	21.5	0.0	0.0 0.0	0			
5173 / 1 / B / Firing Range ambient air without filter 5173 / 1 / B / Firing Range with filter	6/27/2013	13:02 14:18	0.0 0.0	21.5 8.6	0.0 11.2	0.0	0	70s - 80s	Trace	
5173 / 1 / B / Firing Range without filter		14:18	0.0	8.3	11.4	0.0	0			
5173 / 1 / Storage area ambient air, with filter		13:25	0.0	21.7	0.0	0.0	Ö			
5173 / 1 / Storage area ambient air, without filter		13:25	0.0	21.7	0.0	0.0	Ō			
5173 / 1 / C / Storage area with filter		14:30	223.0	3.1	5.7	1.3	26			
5173 / 1 / C / Storage area without filter		14:30	223.0	3.0	7.6	1.6	32			
5173 / 1 / A / Office area ambient air with filter		12:51	0.0	20.7	0.0	0.0	0			
5173 / 1 / A / Office area ambient air without filter	1	12:51	0.0	20.7	0.0	0.0	0			
5173 / 1 / A / Office area with filter	1	13:09	0.0	19.0	1.8	0.0	0			
5173 / 1 / A / Office area without filter	1	13:09 12:47	0.0 0.0	19.0 20.7	1.6 0.0	0.0 0.0	0			
5173 / 1 / B / Firing Range ambient air with filter 5173 / 1 / B / Firing Range ambient air without filter		12:47	0.0	20.7	0.0	0.0	0			
5173 / 1 / B / Firing Range with filter	7/3/2013	13:05	5.0	7.7	10.9	0.0	0	60s - 80s	Trace	
5173 / 1 / B / Firing Range without filter	1	13:05	5.0	7.7	11.7	0.0	0			
5173 / 1 / Storage area ambient air, with filter	1	12:49	0	20.8	0.0	0.0	ő			
5173 / 1 / Storage area ambient air, without filter	1	12:49	Ō	20.8	0.0	0.0	ō			
5173 / 1 / C / Storage area with filter	1	13:25	217	3.3	6.5	1.2	25			
5173 / 1 / C / Storage area without filter		13:25	217	3.0	7.4	1.6	32			
5173 / 1 / A / Office area ambient air with filter	1	13:34	0.0	20.7	0.0	0.0	0			
5173 / 1 / A / Office area ambient air without filter	1	13:34	0.0	20.7	0.0	0.0	0			
5173 / 1 / A / Office area with filter	1	15:20	2.4	19.3	1.7	0.0	0			
5173 / 1 / A / Office area without filter	1	15:20	2.4	19.2	1.6	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter 5173 / 1 / B / Firing Range ambient air without filter	7/11/2013	13:30 13:30	0.0 0.0	20.8 20.8	0.0 0.0	0.0 0.0	0 0	60s - 70s	None	
5173 / 1 / B / Firing Range ambient air without filter	111112013		o.u cessible o					003-708	None	
5173 / 1 / Storage area ambient air, with filter	1	13:32	0.0	20.8	0.0	0.0	0			
		13:32	0.0	20.8	0.1	0.0	Ö			
15173 / 1 / Storage area ambient air. without filter										
5173 / 1 / Storage area ambient air, without filter 5173 / 1 / C / Storage area with filter		15:25	102.6	1.7	7.8	1.2	24			

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Sample Location:			PID	O ₂	CO ₂	CH₄	LEL	Ambient	Summan, of Boont	Poromotrio
· ·	Date:	Time			_		(%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)
Parcel / Building / Probe 5173 / 1 / A / Office area ambient air with filter	Date.	12:34	(ppm) 0.0	(%) 20.7	0.0	(%) 0.0	(%)			
5173 / 1 / A / Office area ambient air with miter		12:34	0.0	20.8	0.0	0.0	Ö			
5173 / 1 / A / Office area with filter		15:16	1.9	19.7	1.5	0.0	0			
5173 / 1 / A / Office area without filter		15:16	1.9	19.8	1.3	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		12:30	0.0	20.7	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	7/18/2013	12:30	0.0	20.7	0.0	0.0	0	70s - 90s	None	
5173 / 1 / B / Firing Range with filter		15:09	5.0	8.0	11.0	0.0	0		110	
5173 / 1 / B / Firing Range without filter		15:09 12:32	5.0 0	7.7 20.7	11.9 0.0	0.0 0.0	0			
5173 / 1 / Storage area ambient air, with filter 5173 / 1 / Storage area ambient air, without filter		12:32	0	20.7	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		15:45	126.3	2.0	8.0	1.3	25			
5173 / 1 / C / Storage area without filter		15:45	126.3	2.9	8.0	1.9	37			
5173 / 1 / A / Office area ambient air with filter		13:18	0.0	20.9	0.0	0.0	0			
5173 / 1 / A / Office area ambient air without filter		13:18	0.0	20.9	0.0	0.0	0			
5173 / 1 / A / Office area with filter		14:46	2.4	19.6	1.6	0.0	0			
5173 / 1 / A / Office area without filter		14:46	2.4	19.6	1.4	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter	7/05/0040	13:15	0.0	20.9	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	7/25/2013	13:15	0.0 cessible o	20.9	0.1	0.0	0	50s - 70s	None	
5173 / 1 / B / Firing Range 5173 / 1 / Storage area ambient air, with filter		13:16	O O	21.0	0.0	0.0	0			
5173 / 1 / Storage area ambient air, withhiter		13:16	Ö	21.0	0.1	0.0	ő			
5173 / 1 / C / Storage area with filter		14:51	113.6	2.7	7.4	1.5	29			
5173 / 1 / C / Storage area without filter		14:51	113.6	2.8	7.7	1.9	38			
5173 / 1 / A / Office area ambient air with filter		13:34	0.0	20.8	0.1	0.0	0			
5173 / 1 / A / Office area ambient air without filter		13:34	0.0	20.8	0.0	0.0	0			
5173 / 1 / A / Office area with filter		14:41	1.0	18.9	2.5	0.0	0			
5173 / 1 / A / Office area without filter		14:41	1.0	19.0	1.6	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:31	0.0	20.8	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter 5173 / 1 / B / Firing Range with filter	8/1/2013	13:31 14:35	0.0 0.9	20.8	0.0	0.0 0.0	0	60s - 80s	None	
5173 / 1 / B / Firing Range with litter		14:35	0.9	7.4 7.5	11.3 11.5	0.0	0			
5173 / 1 / Storage area ambient air, with filter		13:32	0.5	20.8	0.0	0.0	Ö			
5173 / 1 / Storage area ambient air, without filter		13:32	Ö	20.7	0.0	0.0	Ö			
5173 / 1 / C / Storage area with filter		14:46	173.9	2.1	6.7	1.5	29			
5173 / 1 / C / Storage area without filter		14:46	173.9	2.5	7.4	2.1	41			
5173 / 1 / A / Office area ambient air with filter		13:08	0.0	20.6	0.0	0.0	0			
5173 / 1 / A / Office area ambient air without filter		13:08	0.0	20.6	0.0	0.0	0			
5173 / 1 / A / Office area with filter 5173 / 1 / A / Office area without filter		14:15 14:15	1.5 1.5	18.7 18.6	2.0 1.6	0.0 0.0	0 0			
5173 / 1 / B / Firing Range ambient air with filter		13:04	0.0	20.6	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	8/6/2013	13:04	0.0	20.7	0.0	0.0	Ö	60s - 80s	None	
5173 / 1 / B / Firing Range			cessible o							
5173 / 1 / Storage area ambient air, with filter		13:06	0	20.6	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:06	0	20.6	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		14:21	151.3	2.6	7.0	1.5	30			
5173 / 1 / C / Storage area without filter		14:21	151.3	3.0	7.0	2.2	44			
5173 / 1 / A / Office area ambient air with filter		12:52	0.0	20.8	0.0	0.0	0			
5173 / 1 / A / Office area ambient air without filter 5173 / 1 / A / Office area with filter		12:52 13:51	0.0 0.3	20.8 19.3	0.0 2.2	0.0 0.0	0			
5173 / 1 / A / Office area with filter		13:51	0.3	19.3	1.4	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		12:50	0.0	20.8	0.1	0.0	Ö			
5173 / 1 / B / Firing Range ambient air without filter	044540040	12:50	0.0	20.9	0.0	0.0	0	40s - 70s	N	
5173 / 1 / B / Firing Range with filter	8/15/2013	13:45	1.8	6.4	11.4	0.0	0	40S - 70S	None	
5173 / 1 / B / Firing Range without filter		13:45	1.8	6.6	11.7	0.0	0			
5173 / 1 / Storage area ambient air, with filter		12:54	0	20.8	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		12:54	0	20.8	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		13:57	85.8 85.8	2.3	6.6	1.5	30 40			
5173 / 1 / C / Storage area without filter 5173 / 1 / A / Office area ambient air with filter	1	13:57 13:43	0.0	2.8	6.7 0.0	0.0	0	-		
5173 / 1 / A / Office area ambient air with filter		13:43	0.0	20.4	0.0	0.0	0			
5173 / 1 / A / Office area with filter		14:53	0.0	18.9	1.4	0.0	Ö			
5173 / 1 / A / Office area without filter		14:53	0.0	18.9	1.4	0.0	Ö			
5173 / 1 / B / Firing Range ambient air with filter		13:40	0.0	20.4	0.0	0.0	ō			
5173 / 1 / B / Firing Range ambient air without filter	8/22/2013	13:40	0.0	20.4	0.0	0.0	0	60s - 80s	Trace (0.06 in.)	
5173 / 1 / B / Firing Range			cessible o							
5173 / 1 / Storage area ambient air, with filter		13:41	0	20.3	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:41	0	20.3	0.1	0.0	0			
5173 / 1 / C / Storage area with filter		15:00	91.2	1.6	7.0	1.4	28			
5173 / 1 / C / Storage area without filter	L	15:00	91.2	1.8	7.0	2.2	45	I	1	

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Parcel Building Probe Date: Time (ppm) (%) (%) (%) (%) (%) (%) Temperature (*F) President Press 1731 / 1 / 1 / 10 fibro area archient air with tilter 1238 00 20.5 00 00 0 0 0 0 0 0 0	mary of Recent Barometric	Ambient Summary of	FI Ambient	LEL	CH₄	CO2	O ₂	PID			Sample Location:
1973 1 / A / Office area ambient at without filter 1328 0.0 20.5 0.0 0.0 0 0 0 0 0 0 0		,	I						Time	Date:	1
17.25 17.4 Colfice area withfiller 15.26 0.0		````\	1,01							Date.	
1737 1 / A / Office area with filter 14:30 1.9 19.2 1.6 0.0 0											
\$173 1 / 1 / 8 Feiring Range arribent air with filter \$173 1 / 1 / 8 Feiring Range arribent air without filter \$173 1 / 1 / 8 Feiring Range are a malient air, with filter \$173 1 / 1 / 8 Feiring Range are a malient air, with filter \$127 0 \$12 0 \$0 0 0 0 \$13 2 7 0 \$1 0 0 0 0 \$13 2 7 0 \$1 0 0 0 0 \$13 2 7 0 \$1 0 0 0 0 \$13 2 7 0 \$1 0 0 0 0 \$13 2 7 0 \$1 0 0 0 0 0 \$13 2 7 0 \$1 0 0 0 0 0 \$1 0 0 0 0 \$1 0 0 0 0 \$1 0 0 0 0 \$1 0 0 0 0 0 \$1 0 0 0 0 \$1 0 0 0 0 0 \$1 0 0 0 0 0 \$1 0 0 0 0 0 \$1 0 0 0 0 0 \$1 0 0 0 0 0 \$1 0 0 0 0 0 \$1 0 0 0 0 0 \$1 0 0 0 0 0 \$1 0 0 0 0 0 \$1 0 0 0 0 0 \$1 0 0 0 0 0 \$1 0 0 0 0 0 \$1 0 0 0 0 0 \$1 0 0 0 0 0 \$1 0 0 0 0 0 \$1 0 0 0 0 0 \$1 0 0 0 0 0 \$1 0 0 0 0 0 0 0 \$1 0 0 0 0 0 0 0 0 0 0 0 \$1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0	0							5173 / 1 / A / Office area with filter
5/73 1 8 Fring Range ambient air without filter 13 17 17 17 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 18			0	0	0.0	1.2	19.1	1.9	14:30		5173 / 1 / A / Office area without filter
St731											
5/73 / 1 Storage area ambient air, with offiler 13.27	None	70s - 80s None								8/27/2013	
1973 1											
5/73 1 C / Storage area with filter 14:35 91.4 3.1 8.4 1.5 29											
5173 I I C Storage area without filter 1509 - 21 0 0 0 0 0 0 0 0 0											
1737 1			51	51		7.0					
1737 1 A / Office area with filter 1532 1.0 19.2 1.1 0.0 0 0 0 0 0 0 0 0											
1737 1											
15/73 / 1 / B / Friing Range ambient air with filter 9/5/2013 15/00 - 20.3 0.0 0.0 0 0.0 0 0 0 0 0			_								
15/02 15 15 16 17 18 17 18 17 18 18 18											
5173 1 1 1 1 1 1 1 2 0 0 0 0 0 0 0 0 0			n l								
5173 1 1 Firing Range without filter 15:40 1.5 8.6 11.6 0.0 0 0 0 0 0 0 0 0	None	50s - 80s None	- I 50c - 80c	_						9/5/2013	
15/73 1 Storage area ambient air, without filter 15/16 0 2.8 0.0 0.0 0 0 0 0 0 0 0						11.6	6.6		15:40		
5173 1 C Storage area with filter 15.46 85 2.3 6.9 1.6 3.3 3 5173 1 C Storage area without filter 15.46 85 2.3 6.8 2.2 45 5173 1 A Office area ambient air with filter 14.42 0.0 21.0 0.0 0.0 0 0 5173 1 A Office area ambient air with filter 17.55 0.3 20.0 0.7 0.0 0 0 5173 1 A Office area without filter 17.55 0.3 20.0 0.7 0.0 0 0 5173 1 A Office area without filter 17.55 0.3 20.0 0.7 0.0 0 0 0 5173 1 B Firing Range ambient air with filter 17.55 0.3 19.9 1.0 0.0 0 0 0 0 0 0 0 0											
15/13 1 1 1 1 1 1 1 1 1											
14-42 0.0 21.0 0											
14.42 0.0 21.0 0.0 0.0 0 0 0 0 0 0											
S173 1 A Office area with filter 17:35 0.3 20.0 0.7 0.0 0 0 0 0 0 0 0 0											
S173 1 B Firing Range ambient air with filter 14:55											
S173 1 B Firing Range ambient air without filter 9/12/2013 14:55 0.0 2.1 0.0 0.0 0 60s-80s 0.29 inches			0	0							
17:30 17:4			-								
17.40 0.0 6.8 11.4 0.0 0 0 0 0 0 0 0 0	0.29 inches	60s-80s 0.29 inch								9/12/2013	
5173 / 1 / Storage area ambient air, with filter 15:04			0								
5173 / 1 / Storage area ambient air, without filter 15:04											
5173 / 1 / C / Storage area with filter 17:43 83.4 2.4 7.0 1.7 33 5173 / 1 / C / Storage area without filter 17:43 83.4 2.4 6.9 2.3 46 5173 / 1 / 1 / Office area ambient air without filter 13:28 0.0 20.7 0.0 0.0 0 0 5173 / 1 / A / Office area ambient air without filter 14:20 0.4 18.7 1.0 0.0 0 5173 / 1 / B / Firing Range ambient air without filter 14:20 0.4 18.7 1.0 0.0 0 0 0 0 0 0 0 0											
5173 / 1 / C / Storage area without filter 17:43 83.4 2.4 6.9 2.3 46											
5173 / 1 / A / Office area ambient air without filter 13:28			46	46	2.3	6.9	2.4	83.4	17:43		
14:20											
14:20											
5173 / 1 / B / Firing Range ambient air with filter 13:36											
108 109											
14:24 1.2 6.5 10.6 0.0 0 0 0 0 0 0 0 0			n								
5173 / 1 / Storage area ambient air, with filter 13:44	0.6 inches 1009 - 1013	60s - 80s 0.6 inch								9/20/2013	
13:44			0	0	0.0	10.9	6.5	1.2	14:24		5173 / 1 / B / Firing Range without filter
14:29 88.9 2.0 6.3 1.4 28 28 2.1 6.1 1.9 38 2.1 6.1 1.9 38 2.1 6.1 1.9 38 2.1 6.1 2.1											
5173 / 1 / C / Storage area without filter 14:29 88.9 2.1 6.1 1.9 38 5173 / 1 / A / Office area ambient air with filter 13:43 0.0 20.8 0.0 0.0 0 0 0 0 0 0 0 0											
5173 / 1 / A / Office area ambient air with filter 13:43											
5173 / 1 / A / Office area ambient air without filter 5173 / 1 / A / Office area with filter 5173 / 1 / A / Office area with filter 5173 / 1 / B / Firing Range ambient air without filter 5173 / 1 / B / Firing Range ambient air without filter 5173 / 1 / B / Firing Range ambient air without filter 5173 / 1 / B / Firing Range without filter											
5173 / 1 / A / Office area with filter											
5173 / 1 / B / Firing Range ambient air with filter 5173 / 1 / B / Firing Range ambient air without filter 5173 / 1 / B / Firing Range without filter 5173 / 1 / B / Firing Range without filter 5173 / 1 / B / Firing Range without filter 5173 / 1 / B / Firing Range without filter 5173 / 1 / B / Firing Range area ambient air, with filter 513 41 0 20.8 0.0 0.0 0 0 40s - 70s None 1010 1			-	-							
5173 / 1 / B / Firing Range ambient air without filter 9/24/2013 13:40 0.0 20.8 0.0 0.0 0 0.0 0 10:5173 / 1 / B / Firing Range with filter 9/24/2013 13:40 0.0 20.8 0.0 0.0 0 0 0 0 0 0 0					0.0	1.5	18.0	0.3	14:44		
5173 / 1 / B / Firing Range with filter 9/24/2U13 14:38 1.2 6.7 10.0 0.0 0 0 14:38 1.2 6.7 10.6 0.0 0 0 0 0 0 0 0 0											
51/3 / 1 / B / Firing Range with filter	None 1016 - 1018	40s - 70s None								9/24/2013	
5173 / 1 / Storage area ambient air, with filter 13:41 0 20.8 0.0 0.0 0			0							· ·	
			-								
1											
5173 / 1 / C / Storage area with filter 14:49 113.7 2.0 5.7 1.6 31											
5173 / 1 / C / Storage area without filter 14:49 113.7 2.0 5.9 2.1 41											-
5173 / 1 / A / Office area ambient air with filter 13:03 0.0 20.8 0.0 0.0 0											5173 / 1 / A / Office area ambient air with filter
5173 / 1 / A / Office area ambient air without filter 13.03 0.0 20.8 0.0 0.0 0											
5173 /1 / A / Office area with filter 13:39 0.0 17.9 2.5 0.0 0			-	-							
5173 / 1 / A / Office area without filter	0.27 inches 1015 - 1022	60e - 70e 0 27 incl								10/3/2012	
51/37/17 B7 Firing Range 10/3/2013 Inaccessible due to Firing Range operation 60s - 70s 0.27 Inches 101s 15173/17 Storage area ambient air, with filter 13:18 0 20.9 0.0 0.0 0	J.27 Hiches 1015 - 1022	005 - 705 U.27 Incr								10/3/2013	
13.13											
5173 / 1 / C / Storage area with filter 13:41 121.1 1.7 5.2 1.5 28											
5173 / 1 / C / Storage area without filter 13:41 121.1 1.8 5.9 2.0 40										<u> </u>	

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Sample Location:			PID	0,	CO2	CH₄	LEL	Ambient	Summary of Recent	Barometric
Parcel / Building / Probe	Date:	Time	(ppm)	(%)	(%)	(%)	(%)	Temperature (°F)	Precipitation	Pressure (hPa)
5173 / 1 / A / Office area ambient air with filter	Date.	13:26	0.0	20.8	0.0	0.0	0	, ,	· ·	. ,
5173 / 1 / A / Office area ambient air without filter		13:26	0.0	20.9	0.0	0.0	0			
5173 / 1 / A / Office area with filter		13:56	0.6	16.2	1.5	0.0	Ö			
5173 / 1 / A / Office area without filter		13:56	0.6	16.2	1.8	0.0	Ö			
5173 / 1 / B / Firing Range ambient air with filter		13:03	0.0	20.8	0.0	0.0	Ō			
5173 / 1 / B / Firing Range ambient air without filter	10/10/2013	13:03	0.0	20.8	0.0	0.0	0	40s - 70s	None	1020 - 1022
5173 / 1 / B / Firing Range with filter	10/10/2013	14:01	1.3	6.0	9.7	0.0	0	405 - 705	None	1020 - 1022
5173 / 1 / B / Firing Range without filter		14:01	1.3	5.8	10.4	0.0	0			
5173 / 1 / Storage area ambient air, with filter		13:13	0.05	20.6	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:13	0.05	20.6	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		14:12	91.55	2.4	5.6	1.4	28			
5173 / 1 / C / Storage area without filter		14:12	91.55	1.8	5.2	1.9	39			
5173 / 1 / A / Office area ambient air with filter		13:14	0.0	20.7	0.1	0.0	0			
5173 / 1 / A / Office area ambient air without filter 5173 / 1 / A / Office area with filter		13:14 14:53	0.0 0.5	20.7 16.4	0.1 2.5	0.0 0.0	0			
5173 / 1 / A / Office area with filter		14:53	0.5	16.4	2.5	0.0	0			
5173 / 1 / B / Firing Range	10/17/2013		cessible o				-	40s - 50s	0.1 inches	1011 - 1014
5173 / 1 / Storage area ambient air, with filter	1.3,17,2010	13:20	0	20.8	0.1	0.0	0	403 - 003	0.1 110103	1011-1014
5173 / 1 / Storage area ambient air, withhiter		13:20	Ö	20.8	0.0	0.0	Ö			
5173 / 1 / C / Storage area with filter		14:58	138.6	2.4	4.9	1.4	28			
5173 / 1 / C / Storage area without filter		14:58	138.6	2.2	5.2	1.9	38			
5173 / 1 / A / Office area ambient air with filter		12:26	0.0	21.0	0.1	0.0	0			
5173 / 1 / A / Office area ambient air without filter		12:26	0.0	20.9	0.0	0.0	0			
5173 / 1 / A / Office area with filter		13:50	3.6	16.2	1.3	0.0	0			
5173 / 1 / A / Office area without filter		13:50	3.6	16.0	2.6	0.0	0			
5173 / 1 / B / Firing Range	10/24/2013	Inac	cessible (ration	30s - 40s	Trace (0.02 inches)	1015 - 1025
5173 / 1 / Storage area ambient air, with filter		12:43	0	21.2	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		12:43	0	21.4	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		13:54	223	4.3	2.5	1.0	20			
5173 / 1 / C / Storage area without filter		13:54	223	4.9	4.2	1.3	25			
5173 / 1 / A / Office area ambient air with filter		13:36	0.0	21.1	0.1	0.0	0			
5173 / 1 / A / Office area ambient air without filter		13:36	0.0	21.1	0.1	0.0	0			
5173 / 1 / A / Office area with filter		15:17	1.5	16.6	3.0	0.0	0			
5173 / 1 / A / Office area without filter		15:17	1.5	16.8	2.0	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:13	0.0	21.1	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter 5173 / 1 / B / Firing Range with filter	10/31/2013	13:13 15:21	0.0 1.9	21.0 10.3	0.0 6.6	0.0 0.0	0	60s	1.25 inches	1000 - 1010
5173 / 1 / B / Filing Range with litter		15:21	1.9	10.3	7.0	0.0	0			
		13:26	0.3	21.1	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:26	0.3	21.0	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		15:26	103.3	7.4	3.7	0.7	14			
5173 / 1 / C / Storage area without filter		15:26	103.3	7.4	3.2	1.0	19			
5173 / 1 / A / Office area ambient air with filter		12:48	0.0	20.9	0.1	0.0	0			
5173 / 1 / A / Office area ambient air without filter	1	12:48	0.0	21.0	0.1	0.0	ō			
5173 / 1 / A / Office area with filter		14:04	1.5	15.3	3.4	0.0	0			
5173 / 1 / A / Office area without filter		14:04	1.5	15.2	3.4	0.0	0			
5173 / 1 / B / Firing Range	11/7/2013	Inac	cessible o	due to F	iring Rai	nge oper	ration	40s	Trace (0.04 inches)	1020 - 1025
5173 / 1 / Storage area ambient air, with filter	1	12:51	0	21.0	0.0	0.0	0		'	
5173 / 1 / Storage area ambient air, without filter		12:51	0	21.0	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		14:09	112.3	3.0	3.7	1.0	20			
5173 / 1 / C / Storage area without filter		14:09	112.3	3.0	4.2	1.3	26			
5173 / 1 / A / Office area ambient air with filter		12:48	0.0	21.1	0.0	0.0	0			
5173 / 1 / A / Office area ambient air without filter	1	12:48	0.0	21.1	0.0	0.0	0			
5173 / 1 / A / Office area with filter	1	13:45	1.2	15.3	3.3	0.0	0			
5173 / 1 / A / Office area without filter	l	13:45	1.2	15.2	3.1	0.0	0			
5173 / 1 / B / Firing Range	11/12/2013		cessible (20s - 30s	Trace (0.05 inches)	1030 - 1036
5173 / 1 / Storage area ambient air, with filter	1	12:44	0.0	21.2	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter	1	12:44	0.0	21.3	0.0	0.0	0			
5173 / 1 / C / Storage area with filter	1	13:52	105.9	3.1	3.4	1.0	20			
5173 / 1 / C / Storage area without filter		13:52	105.9	2.9	3.9	1.3	26			

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Sample Location:			PID	O ₂	CO2	CH₄	LEL	Ambient	Summary of Recent	Barometric
Parcel / Building / Probe	Date:	Time	(ppm)	(%)	(%)	(%)	(%)	Temperature (°F)	Precipitation	Pressure (hPa)
5173 / 1 / A / Office area ambient air with filter		14:31	0.0	21.2	0.0	0.0	0			
5173 / 1 / A / Office area ambient air without filter		14:31	0.0	21.2	0.0	0.0	0			
5173 / 1 / A / Office area with filter		14:45	0.0	15.5	3.0	0.0	0			
5173 / 1 / A / Office area without filter		14:45	0.0	15.2	3.4	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		14:42	0.0	21.2	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	11/20/2013	14:42	0.0	21.2	0.0	0.0	0	20s - 40s	None	1023 - 1026
5173 / 1 / B / Firing Range with filter	11/20/2010	14:47	0.0	6.7	8.1	0.0	0	250 100	T TONC	1020 1020
5173 / 1 / B / Firing Range without filter		14:47	0.0	6.4	9.3	0.0	0			
5173 / 1 / Storage area ambient air, with filter		14:35	0.0	21.1	0.1	0.0	0			
5173 / 1 / Storage area ambient air, without filter		14:35 14:49	0.0 133.9	21.1 3.2	0.0 4.3	0.0	0 18			
5173 / 1 / C / Storage area with filter 5173 / 1 / C / Storage area without filter		14:49	133.9	3.2 2.8	4.5 3.7	1.3	28			
5173 / 1 / A / Office area ambient air with filter		14:49	0.0	21.1	0.0	0.0	0			
5173 / 1 / A / Office area ambient air with filter		14:10	0.0	21.1	0.0	0.0	0			
5173 / 1 / A / Office area with filter		14:45	0.0	14.6	4.7	0.0	Ö			
5173 / 1 / A / Office area without filter		14:45	0.0	14.8	3.8	0.0	ō			
5173 / 1 / B / Firing Range ambient air with filter		14:15	0.0	20.9	0.1	0.0	ō			
5173 / 1 / B / Firing Range ambient air without filter	11/26/2013	14:15	0.0	21.0	0.1	0.0	0	30s	T (0.04 :)	1013 - 1019
5173 / 1 / B / Firing Range with filter	11/26/2013	14:51	0.0	6.5	8.8	0.0	0	3US	Trace (0.01 inches)	1013 - 1019
5173 / 1 / B / Firing Range without filter		14:51	0.0	6.6	9.1	0.0	0			
5173 / 1 / Storage area ambient air, with filter		13:56	0.0	21.1	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:56	0.0	21.2	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		14:57	90.7	2.3	4.2	1.0	19			
5173 / 1 / C / Storage area without filter		14:57	90.7	2.2	3.5	1.3	26			
5173 / 1 / A / Office area ambient air with filter		13:33	0.1	21.8	0.0	0.0	0			
5173 / 1 / A / Office area ambient air without filter		13:33	0.1	21.7	0.1	0.0	0			
5173 / 1 / A / Office area with filter		15:07	1.2	14.8	3.6	0.0	0			
5173 / 1 / A / Office area without filter		15:07 14:14	1.2 0.0	14.8 21.4	4.0 0.1	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter 5173 / 1 / B / Firing Range ambient air without filter		14:14	0.0	21.4	0.1	0.0	0			
5173 / 1 / B / Firing Range with filter	12/5/2013	14:59	1.9	6.6	8.9	0.0	0	30s - 40s	0.07 inches	1013 - 1016
5173 / 1 / B / Firing Range with filter		14:59	1.9	6.6	9.4	0.0	0			
5173 / 1 / Storage area ambient air, with filter		13:25	0.3	21.5	0.0	0.0	ő			
5173 / 1 / Storage area ambient air, without filter		13:25	0.3	21.7	0.0	0.0	ō			
5173 / 1 / C / Storage area with filter		15:11	189.7	2.8	3.5	0.9	18			
5173 / 1 / C / Storage area without filter		15:11	189.7	2.7	3.5	1.3	26			
5173 / 1 / A / Office area ambient air with filter		13:59	0.0	21.0	0.1	0.0	0			
5173 / 1 / A / Office area ambient air without filter		13:59	0.0	21.1	0.1	0.0	0			
5173 / 1 / A / Office area with filter		15:52	0.6	18.8	2.5	0.0	0			
5173 / 1 / A / Office area without filter		15:52	0.6	19.2	1.4	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		14:18	0.0	21.2	0.1	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	12/12/2013	14:18	0.0	21.3	0.0	0.0	0	15 - 20	None	1030 - 1036
5173 / 1 / B / Firing Range with filter			1.6	6.8	8.3	0.0	0			
5173 / 1 / B / Firing Range without filter			1.6	6.5	9.3	0.0	0			
5173 / 1 / Storage area ambient air, with filter		14:33	0.0	21.5	0.1	0.0	0			
5173 / 1 / Storage area ambient air, without filter		14:33	0.0	21.5	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		15:57	96.2	8.8	2.9	0.3	6 9			
5173 / 1 / C / Storage area without filter		15:57 14:36	96.2	8.7 21.6	2.7 0.0	0.5	0			
5173 / 1 / A / Office area ambient air with filter 5173 / 1 / A / Office area ambient air without filter		14:36	0.0	21.5	0.0	0.0	0			
5173 / 1 / A / Office area ambient air without filter		15:00	0.6	20.8	0.1	0.0	0			
5173 / 1 / A / Office area with filter		15:00	0.6	20.6	0.5	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		14:39	0.0	21.6	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	l l	14:39	0.0	21.6	0.0	0.0	0	l		
5173 / 1 / B / Firing Range with filter	12/19/2013	15:05	0.0	9.0	7.8	0.0	0	30s - 40s	None	1016 - 1018
		15:05	0.0	9.1	8.3	0.0	0			
5173 / 1 / Storage area ambient air, with filter		14:23	0.0	21.3	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		14:23	0.0	21.3	0.0	0.0	o			
	I							İ	l l	
5173 / 1 / C / Storage area with filter		15:08	116.3	11.8	1.3	0.1	1			

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Sample Location:	Τ		PID	O ₂	CO ₂	CH₄	LEL	Ambient	Summary of Recent	Barometric
Parcel / Building / Probe	Date:	Time	(ppm)	(%)	(%)	(%)	(%)	Temperature (°F)		Pressure (hPa)
5173 / 1 / A / Office area ambient air with filter	Date.	12:46	0.0	21.5	0.0	0.0	0	<u> </u>	· ·	. ,
5173 / 1 / A / Office area ambient air with filter		12:46	0.0	21.5	0.0	0.0	0			
5173 / 1 / A / Office area with filter		13:04	0.0	16.4	4.0	0.0	ō			
5173 / 1 / A / Office area without filter		13:04	0.0	16.5	2.7	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		12:41	0.0	21.6	0.1	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	12/23/2013	12:41	0.0	21.6	0.0	0.0	0	20s - 30s	Trace	1026 - 1029
5173 / 1 / B / Firing Range with filter	1220/2010	13:10	0.4	11.0	7.0	0.0	0	203 - 003	(0.02 inches)	1020 - 1020
5173 / 1 / B / Firing Range without filter		13:10	0.4	10.6	8.3	0.0	0			
5173 / 1 / Storage area ambient air, with filter		12:43	0.0	21.6	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		12:43 13:15	0.0 126.8	21.6 13.2	0.0 2.9	0.0 0.2	0 3			
5173 / 1 / C / Storage area with filter 5173 / 1 / C / Storage area without filter		13:15	126.8	13.4	1.8	0.2	4			
5173 / 1 / A / Office area ambient air with filter		15:48	0.0	22.0	0.0	0.0	0			
5173 / 1 / A / Office area ambient air without filter		15:48	0.0	22.0	0.1	0.0	ō			
5173 / 1 / A / Office area with filter		16:25	0.8	21.2	0.2	0.0	0			
5173 / 1 / A / Office area without filter		16:25	0.8	21.1	0.4	0.0	0			
5173 / 1 / B / Firing Range	1/2/2014					nge oper		20 - 30	5.46 inches	1012 - 1026
5173 / 1 / Storage area ambient air, with filter		15:42	0.0	21.5	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter	1	15:42	0.0	21.7	0.0	0.0	0			
5173 / 1 / C / Storage area with filter	1	16:28	86.4	15.0	0.5	0.0	0.1	1		
5173 / 1 / C / Storage area without filter 5173 / 1 / A / Office area ambient air with filter	+	16:28 13:35	86.4 0.0	14.7 21.2	0.0	0.1	<u>3</u> 0	-		
5173 / 1 / A / Office area ambient air with filter	1	13:35	0.0	21.2	0.0	0.0	0	1		
5173 / 1 / A / Office area with filter		14:56	3.3	20.7	1.8	0.0	ő			
5173 / 1 / A / Office area without filter		14:56	3.3	21.0	0.2	0.0	Ö			
5173 / 1 / B / Firing Range ambient air with filter		13:31	0.0	21.2	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	1/9/2014	13:31	0.0	21.2	0.0	0.0	0	20s - 30s	1.55 inches	1026 - 1035
5173 / 1 / B / Firing Range with filter	1/9/2014	Inacc	essible	due to F	iring Rai	nge oper	ation	205 - 305	1.55 inches	1026 - 1035
5173 / 1 / B / Firing Range without filter						nge oper				
5173 / 1 / Storage area ambient air, with filter		13:33	0.0	21.1	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:33	0.0	21.2	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		15:00	81.4 81.4	10.2	0.8	0.1	3 5			
5173 / 1 / C / Storage area without filter 5173 / 1 / A / Office area ambient air with filter	+	15:00 12:34	0.0	9.8 21.1	1.4 0.0	0.2	0			
5173 / 1 / A / Office area ambient air with litter		12:34	0.0	21.0	0.0	0.0	Ö			
5173 / 1 / A / Office area with filter		13:13	2.1	21.0	0.4	0.0	Ö			
5173 / 1 / A / Office area without filter		13:13	2.1	20.9	0.1	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		12:36	0.0	20.9	0	0	0			
5173 / 1 / B / Firing Range ambient air without filter	1/16/2014	12:36	0.0	20.9	0	0	0	20s - 30s	0.97 inches	1008 - 1019
5173 / 1 / B / Firing Range with filter	17.1072011					nge oper		250 500	0.01 11.01.00	1000 1010
5173 / 1 / B / Firing Range without filter						nge oper				
5173 / 1 / Storage area ambient air, with filter		12:37	0.0	20.9	0.0 0.1	0.0 0.0	0			
5173 / 1 / Storage area ambient air, without filter 5173 / 1 / C / Storage area with filter		12:37 13:20	0.0 96.1	20.9 14.7	1.0	0.0	3			
5173 / 1 / C / Storage area without filter		13:20	96.1	14.6	1.5	0.1	4			
5173 / 1 / A / Office area ambient air with filter	<u> </u>	12:13	0.0	21.5	0.0	0.0	0	1		
5173 / 1 / A / Office area ambient air without filter	1	12:13	0.0	21.5	0.0	0.0	ŏ	1		
5173 / 1 / A / Office area with filter	1	13:20	2.6	21.2	0.8	0.0	0			
5173 / 1 / A / Office area without filter	1	13:20	2.6	21.3	0.1	0.0	0	1		
5173 / 1 / B / Firing Range ambient air with filter	1	12:10	0.0	21.4	0.1	0	0	1		
5173 / 1 / B / Firing Range ambient air without filter	1/23/2014	12:10	0.0	21.4	0	0	0	5 - 15	Trace	1019 - 1038
5173 / 1 / B / Firing Range with filter		13:13	3.4	18.8	5.3	0.0	0			
5173 / 1 / B / Firing Range without filter	1	13:13	3.4	18.7	4.7	0.0	0	1		
5173 / 1 / Storage area ambient air, with filter 5173 / 1 / Storage area ambient air, without filter	1	12:12 12:12	0.0 0.0	21.4 21.4	0.1 0.0	0.0 0.0	0	1		
5173 / 1 / Storage area amplent air, without filter 5173 / 1 / C / Storage area with filter	1	13:27	72.8	21.4 15.8	0.0	0.0	2	1		
5173 / 1 / C / Storage area with filter	1	13:27	72.8	15.7	1.2	0.1	4	1		
5173 / 1 / A / Office area ambient air with filter	1	13:35	0.0	21.8	0.1	0.0	0	1		
5173 / 1 / A / Office area ambient air without filter	1	13:35	0.0	21.8	0.1	0.0	0	1		
5173 / 1 / A / Office area with filter	1	14:35	0.0	21.1	0.3	0.0	0	1		
5173 / 1 / A / Office area without filter	1	14:35	0.0	21.1	0.1	0.0	0	1		
5173 / 1 / B / Firing Range ambient air with filter	1	13:15	0.1	21.3	0	0	0			
5173 / 1 / B / Firing Range ambient air without filter	1/28/2014	13:15	0.1	21.4	0	0	0	5	None	1030 - 1033
5173 / 1 / B / Firing Range with filter	1	14:44	0.0	18.8	3.5	0.0	0	1		
5173 / 1 / B / Firing Range without filter	1	14:44	0.0	18.8	4.2	0.0	0	1		
5173 / 1 / Storage area ambient air, with filter 5173 / 1 / Storage area ambient air, without filter	1	13:19 13:19	0.0 0.0	21.4 21.5	0.0 0.0	0.0 0.0	0			
orror ir otorage area ambient air, without litter	1			∠1.5 15.5	0.0		1	İ		
5173 / 1 / C / Storage area with filter		14:50	60.9			0.1				

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Sample Location:			PID	O ₂	CO2	CH₄	LEL	Ambient	Summary of Recent	Barometric
Parcel / Building / Probe	Date:	Time	(ppm)	(%)	(%)	(%)	(%)	Temperature (°F)	Precipitation	Pressure (hPa)
5173 / 1 / A / Office area ambient air with filter	Date.	13:10	0.0	21.1	0.1	0.0	0	, ,	'	. ,
5173 / 1 / A / Office area ambient air without filter		13:10	0.0	21.0	0.0	0.0	Ö			
5173 / 1 / A / Office area with filter		14:00	2.3	21.2	0.1	0.0	0			
5173 / 1 / A / Office area without filter		14:00	2.3	21.1	0.1	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:12	0.0	20.9	0.1	0	0			
5173 / 1 / B / Firing Range ambient air without filter	2/6/2014	13:12	0.0	20.9	0	0	0	15 - 25	0.3 inches	1029 - 1032
5173 / 1 / B / Firing Range with filter			essible							
5173 / 1 / B / Firing Range without filter		Inacc	essible 0.0	due to F 21.0	iring Kai 0.1	nge opei 0.0	ration 0			
5173 / 1 / Storage area ambient air, with filter 5173 / 1 / Storage area ambient air, without filter		13:14	0.0	21.0	0.1	0.0	0			
5173 / 1 / C / Storage area with filter		14:10	105.9	16.9	1.0	0.0	2			
5173 / 1 / C / Storage area without filter		14:10	105.9	16.8	1.2	0.1	2			
5173 / 1 / A / Office area ambient air with filter		13:48	0.0	21.2	0.0	0.0	0			
5173 / 1 / A / Office area ambient air without filter		13:48	0.0	21.3	0.1	0.0	0			
5173 / 1 / A / Office area with filter		15:30	1.8	20.9	2.4	0.0	0			
5173 / 1 / A / Office area without filter		15:30	1.8	21.2	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:40	0.0 0.0	21.1 21.3	0.1 0.0	0.0 0.0	0			
5173 / 1 / B / Firing Range ambient air without filter 5173 / 1 / B / Firing Range with filter	2/13/2014	13:40 15:25	4.1	∠1.3 19.2	2.5	0.0	0	25 - 35	None	1003 - 1018
5173 / 1 / B / Firing Range withhiter		15:25	4.1	19.1	3.1	0.0	0			
5173 / 1 / Storage area ambient air, with filter		9:43	0.0	21.0	0.0	0.0	ő			
5173 / 1 / Storage area ambient air, without filter		9:43	0.0	21.0	0.0	0.0	ō			
5173 / 1 / C / Storage area with filter		9:55	117.4	15.9	0.8	0.1	1			
5173 / 1 / C / Storage area without filter		9:55	117.4	15.8	1.2	0.1	1			
5173 / 1 / A / Office area ambient air with filter		13:43	0.0	20.8	0.0	0.0	0			
5173 / 1 / A / Office area ambient air without filter		13:43	0.0	20.7	0.0	0.0	0			
5173 / 1 / A / Office area with filter		14:25	0.4 0.4	20.5 20.8	0.8	0.0	0			
5173 / 1 / A / Office area without filter 5173 / 1 / B / Firing Range ambient air with filter		14:25 13:44	0.4	20.8	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	2/20/2014	13:44	0.0	20.7	0.0	0.0	0	35 - 40	None	1010 - 1014
5173 / 1 / B / Firing Range	2,20,2014				iring Rai			00-40	None	1010-1014
5173 / 1 / Storage area ambient air, with filter		13:45	0.0	20.7	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:45	0.0	20.7	0.1	0.0	0			
5173 / 1 / C / Storage area with filter		14:32	63.4	16.5	1.0	0.0	0			
5173 / 1 / C / Storage area without filter		14:32	63.4	16.5	1.2	0.1	2			
5173 / 1 / A / Office area ambient air with filter		12:56	0.0	21.2	0.0	0.0	0			
5173 / 1 / A / Office area ambient air without filter 5173 / 1 / A / Office area with filter		12:56 13:25	0.0 0.9	21.2 21.1	0.0 0.0	0.0 0.0	0			
5173 / 1 / A / Office area with filter		13:25	0.9	21.1	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		12:54	0.0	21.3	0.1	0.0	ő			
5173 / 1 / B / Firing Range ambient air without filter	2/27/2014	12:54	0.0	21.3	0.0	0.0	0	15 - 25	Trace	1008 - 1024
5173 / 1 / B / Firing Range		Inacc	cessible	due to F	iring Rai	nge opei	ration			
5173 / 1 / Storage area ambient air, with filter		12:52	0.0	21.2	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		12:52	0.0	21.3	0.1	0.0	0			
5173 / 1 / C / Storage area with filter		13:32	64.0	16.5	2.3	0.1	1			
5173 / 1 / C / Storage area without filter 5173 / 1 / A / Office area ambient air with filter	-	13:32 13:40	64.0 0.0	16.6 20.9	1.1 0.0	0.2	3 0	-		
5173 / 1 / A / Office area ambient air with filter		13:40	0.0	20.9	0.0	0.0	0			
5173 / 1 / A / Office area with filter		14:40	0.0	20.7	0.3	0.0	0	1		
5173 / 1 / A / Office area without filter		14:40	0.2	20.6	0.2	0.0	Ö			
5173 / 1 / B / Firing Range	3/6/2014	Inaco	essible	due to F	iring Rai	nge opei	ration	35 - 45	None	1020 - 1029
5173 / 1 / Storage area ambient air, with filter		13:50	0.0	20.9	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:50	0.0	20.9	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		15:00	57.1	16.0	1.2	0.1	2			
5173 / 1 / C / Storage area without filter	-	15:00	57.1	15.8	1.2	0.1	3	ļ		
5173 / 1 / A / Office area ambient air with filter 5173 / 1 / A / Office area ambient air without filter		12:44 12:44	0.0 0.0	21.4 21.4	0.1 0.0	0.0 0.0	0	1		
5173 / 1 / A / Office area with filter		'2.44	1.0	21.4	0.0	0.0	0	1		
5173 / 1 / A / Office area with litter		1	1.0	21.4	0.0	0.0	0	1		
5173 / 1 / B / Firing Range ambient air with filter		12:42	0.1	21.4	0.1	0.0	ő	1		
5173 / 1 / B / Firing Range ambient air without filter	4/2/2014	12:42	0.1	21.4	0.1	0.0	Ō	50s	Trace (0.15 inches)	1020
5173 / 1 / B / Firing Range		Inacc	cessible	due to F		nge opei	ration	1		
5173 / 1 / Storage area ambient air, with filter		12:40	0.1	21.3	0.2	0.0	0			
5173 / 1 / Storage area ambient air, without filter		12:40	0.1	21.3	0.1	0.0	0	1		
5173 / 1 / C / Storage area with filter		1	65.3	16.3	1.2	0.1	1	1		
5173 / 1 / C / Storage area without filter		L	65.3	16.4	1.0	0.1	2	L		

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Sample Location:			PID	O ₂	CO ₂	CH₄	LEL	Ambient	Summary of Recent	Barometric
Parcel / Building / Probe	Date:	Time	(ppm)	(%)	(%)	(%)	(%)	Temperature (°F)		Pressure (hPa)
5173 / 1 / A / Office area ambient air with filter	Date.	15:05	0.0	20.6	0.0	0.0	0	, , ,		
5173 / 1 / A / Office area ambient air without filter		15:05	0.0	20.6	0.0	0.0	ō			
5173 / 1 / A / Office area with filter		15:55	0.1	20.5	0.0	0.0	0			
5173 / 1 / A / Office area without filter		15:55	0.1	20.5	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		14:50	0.0	19.9	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	5/8/2014 ^[3]	14:50	0.0	20.0	0.0	0.0	0	75-85	None	1013-1017
5173 / 1 / B / Firing Range with filter		15:49	2.0	18.1	1.9	0.0	0			
5173 / 1 / B / Firing Range without filter 5173 / 1 / Storage area ambient air, with filter		15:49 14:57	2.0 0.0	18.1 20.3	2.1 0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		14:57	0.0	20.3	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		15:58	51.1	18.2	0.8	0.0	ő			
5173 / 1 / C / Storage area without filter		15:58	51.1	18.2	1.2	0.0	Ō			
5173 / 1 / A / Office area ambient air with filter		12:17	0.0	20.8	0.0	0.0	0			
5173 / 1 / A / Office area ambient air without filter		12:17	0.0	20.8	0.0	0.0	0			
5173 / 1 / A / Office area with filter		12:32	0.3	21.0	0.0	0.0	0			
5173 / 1 / A / Office area without filter	0/0/0044	12:32	0.3	21.1	0.0	0.0	0	75.05	_	4044 4044
5173 / 1 / B / Firing Range	6/3/2014		cessible o				ration 0	75-85	Trace	1011-1014
5173 / 1 / Storage area ambient air, with filter 5173 / 1 / Storage area ambient air, without filter		12:43 12:43	0.1 0.1	21.1 21.1	0.0 0.0	0.0 0.0	0			
5173 / 1 / C / Storage area with filter		12:50	30.9	16.9	2.3	0.0	0			
5173 / 1 / C / Storage area without filter		12:50	30.9	16.8	2.5	0.1	2			
5173 / 1 / A / Office area ambient air with filter		13:32	0.0	20.5	0.0	0.0	0			
5173 / 1 / A / Office area ambient air without filter	1	13:32	0.0	20.6	0.0	0.0	ō	1		
5173 / 1 / A / Office area with filter		15:49	0.0	20.2	0.1	0.0	0			
5173 / 1 / A / Office area without filter		15:49	0.0	20.3	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:20	0.2	20.6	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	7/17/2014	13:20	0.2	20.7	0.0	0.0	0	70-75	None	1016-1020
5173 / 1 / B / Firing Range with filter		15:53	4.0 4.0	16.2 16.2	3.1 3.3	0.0 0.0	0			
5173 / 1 / B / Firing Range without filter 5173 / 1 / Storage area ambient air, with filter		15:53 13:45	4.0 0.0	20.9	3.3 0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:45	0.0	20.9	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		16:19	43.2	15.8	2.5	0.0	0			
5173 / 1 / C / Storage area without filter		16:19	43.2	15.7	2.7	0.0	1			
5173 / 1 / A / Office area ambient air with filter		13:35	0.0	20.9	0.0	0.0	0			
5173 / 1 / A / Office area ambient air without filter		13:35	0.0	21.0	0.0	0.0	0			
5173 / 1 / A / Office area with filter		15:13	0.8	20.9	0.0	0.0	0			
5173 / 1 / A / Office area without filter		15:13	0.8	20.9	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:08 13:08	0.2 0.2	20.9 20.9	0.0 0.0	0.0 0.0	0			
5173 / 1 / B / Firing Range ambient air without filter 5173 / 1 / B / Firing Range with filter	8/14/2014	15:08	4.7	20.9 16.9	3.2	0.0	0	70-80	None	1014-1017
5173 / 1 / B / Firing Range withhiter		15:08	4.7	16.9	3.4	0.0	0			
5173 / 1 / Storage area ambient air, with filter		13:22	0.3	21.0	0.0	0.0	Ö			
5173 / 1 / Storage area ambient air, without filter		13:22	0.3	21.0	0.0	0.0	Ō			
5173 / 1 / C / Storage area with filter		15:18	51.9	16.6	2.8	0.0	0			
5173 / 1 / C / Storage area without filter		15:18	51.9	16.6	2.9	0.0	0			
5173 / 1 / A / Office area ambient air with filter			0.0	20.7	0.1	0.0	0			
5173 / 1 / A / Office area ambient air without filter			0.0	20.7	0.0	0.0	0			
5173 / 1 / A / Office area with filter		13:23	0.0	20.6	0.1	0.0	0			
5173 / 1 / A / Office area without filter		13:23	0.0 0.0	20.6 20.7	0.3 0.2	0.0 0.0	0			
5173 / 1 / B / Firing Range ambient air with filter 5173 / 1 / B / Firing Range ambient air without filter			0.0	20.7	0.2	0.0	0			
5173 / 1 / B / Firing Range with filter	10/9/2014							50s	0.3 inches	1017-1021
5173 / 1 / B / Firing Range without filter		Inacc	cessible o	due to F	iring Rar	nge oper	ration			
5173 / 1 / Storage area ambient air, with filter			0.0	20.7	0.2	0.0	0			
5173 / 1 / Storage area ambient air, without filter			0.0	20.6	0.2	0.0	0			
5173 / 1 / C / Storage area with filter		13:29	60.4	18.3	1.5	0.0	0			
5173 / 1 / C / Storage area without filter		13:29	60.4	18.1	1.7	0.0	0	ļ		
5173 / 1 / A / Office area ambient air with filter	1	13:00	0.0	21.5	0.0	0.0	0 0	1		
5173 / 1 / A / Office area ambient air without filter	1	13:00	0.0	21.5	0.0	0.0	0	1		
5173 / 1 / A / Office area with filter 5173 / 1 / A / Office area without filter	1	14:05 14:05	0.6 0.6	21.7 21.8	0.0 0.0	0.0 0.0	0	1		
5173 / 1 / B / Firing Range	11/26/2014		o.o cessible o					30-35	None	1018-1023
5173 / 1 / Storage area ambient air, with filter	1 1/20/2014	13:17	0.0	21.4	0.0	0.0	0		None	1010-1020
5173 / 1 / Storage area ambient air, without filter	1	13:17	0.0	21.4	0.0	0.0	ő	1		
5173 / 1 / C / Storage area with filter		14:10	23.2	21.1	0.2	0.0	Ō			
		14:10	23.2	21.1	0.4	0.0	0	i	1	

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Vapor Intrusion Sampling Values Parcel 5173 Building 15 - Sim Trainer 2031 Dryden Road South Dayton Dump and Landfill Site Moraine, Ohio

Sample Location:			PID	0,	CO2	CH₄	LEL	Ambient	Summary of Recent	Barometric
Parcel / Building / Probe	Date:	Time	(ppm)	(%)	(%)	(%)	(%)	Temperature (°F)		Pressure (hPa)
5173 / 1 / A / Office area ambient air with filter	- Date.	14:05	0.0	21.4	0.0	0.0	0			
5173 / 1 / A / Office area ambient air without filter		14:05	0.0	21.4	0.0	0.0	Ö			
5173 / 1 / A / Office area with filter			0.0	21.2	1.8	0.0	Ō			
5173 / 1 / A / Office area without filter			0.0	21.1	2.1	0.0	0			
E172 / 1 / D / Fixing Bases	2/6/2015	Inacces	sible due	to Firin	g Range	operation	on / Gas	25-35	N	1022 - 1030
5173 / 1 / B / Firing Range	2/6/2015	probe	damage	d per siti	e persor	nnel notif	ication	25-35	None	1022 - 1030
5173 / 1 / Storage area ambient air, with filter		14:19	0.1	21.7	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		14:19	0.1	21.7	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		16:33	11.7	20.5	0.5	0.1	3			
5173 / 1 / C / Storage area without filter		16:33	11.7	20.6	0.5	0.1	3			
5173 / 1 / A / Office area ambient air with filter		14:43	0.0	20.8	0.0	0.0	0			
5173 / 1 / A / Office area ambient air without filter		14:43	0.0	20.9	0.1	0.0	0			
5173 / 1 / A / Office area with filter		16:35	0.4	20.9	0.4	0.0	0			
5173 / 1 / A / Office area without filter		16:35	0.4	21.1	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:47	0.0	21.0	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	5/20/2015	13:47	0.0	21.0	0.0	0.0	0	50-60	None	1016 - 1022
5173 / 1 / B / Firing Range with filter		16:33	4.7	18.8	1.8	0.0	0			
5173 / 1 / B / Firing Range without filter		16:33	4.7	18.9	1.7	0.0	0			
5173 / 1 / Storage area ambient air, with filter		14:02	0.0	21.0	0.0 0.0	0.0 0.0	0			
5173 / 1 / Storage area ambient air, without filter		14:02		21.0	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		16:54	12.3 12.3	18.8			0			
5173 / 1 / C / Storage area without filter		16:54 10:55	0.0	18.7 20.1	0.9	0.0	0			
5173 / 1 / A / Office area ambient air with filter		10:55	0.0	20.1	0.0	0.0	0			
5173 / 1 / A / Office area ambient air without filter 5173 / 1 / A / Office area with filter		14:39	0.0	20.2	0.0	0.0	0			
5173 / 1 / A / Office area with filter		14:39	0.0	20.0	0.0	0.0	0			
		l .								
5173 / 1 / B / Firing Range	8/20/2015	Inac	cessible	due to F	iring Rai	nge oper	ation	65-70	Trace	1009 - 1017
5173 / 1 / Storage area ambient air, with filter		10:36	0.9	20.2	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		10:36	0.9	20.1	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		14:43	4.7	17.8	1.5	0.0	0			
5173 / 1 / C / Storage area without filter		14:43	4.7	17.7	1.7	0.0	0			
5173 / 1 / A / Office area ambient air with filter		14:06	0.0	21.0	0.0	0.0	0			
5173 / 1 / A / Office area ambient air without filter		14:06	0.0	21.0	0.0	0.0	0			
5173 / 1 / A / Office area with filter		14:57	0.7	20.8	0.3	0.0	0			
5173 / 1 / A / Office area without filter		14:57	0.7	20.7	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:43	0.0	20.8	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	11/5/2015	13:43	0.0	20.8	0.0	0.0	0	60-70	Trace	1019 - 1021
5173 / 1 / B / Firing Range with filter		15:05	2.8	19.7	0.4	0.0	0			
5173 / 1 / B / Firing Range without filter		15:05	2.8 0.0	19.4	1.3 0.0	0.0 0.0	0			
5173 / 1 / Storage area ambient air, with filter		13:48 13:48	0.0	20.8 20.8	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter			3.7	20.8 19.3	0.4	0.0	0			
5173 / 1 / C / Storage area with filter		15:10 15:10	3.7 3.7	19.3	0.4	0.0	0			
5173 / 1 / C / Storage area without filter 5173 / 1 / A / Office area ambient air with filter	-	14:04	0.0	21.7	0.9	0.0	0			
5173 / 1 / A / Office area ambient air with filter		14:04	0.0	21.7	0.1	0.0	0			
5173 / 1 / A / Office area with filter		14:31	1.0	21.7	0.1	0.0	0			
5173 / 1 / A / Office area with filter		14:31	1.0	21.7	0.2	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:45	0.0	21.7	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	I	13:45	0.0	21.9	0.0	0.0	ő			
5173 / 1 / B / Firing Range with filter	1/28/2016	14:27	2.6	21	0.3	0.2	Ö	35-45	Trace	1005 - 1012
5173 / 1 / B / Firing Range without filter		14:27	2.6	20.9	0.9	0.0	0			
5173 / 1 / Storage area ambient air, with filter		13:52	0.0	21.7	0.0	0.0	ő			
5173 / 1 / Storage area ambient air, with micr		13:52	0.0	21.7	0.0	0.0	Ö			
5173 / 1 / C / Storage area with filter		14:35	3.7	20.6	0.4	0.0	Ö			
5173 / 1 / C / Storage area without filter		14:35	3.7	20.5	0.5	0.0	ō			

Notes:

O2 - Oxygen

CO₂ - Carbon Dioxide

CH4 - Methane

LEL - Lower Explosive Limit
U - Qualified as non-detect due to issues with the filter

Value - Value is greater than screening levels for rapid response (USEPA, 2010).

Source of weather data for July to September 2016: https://www.wunderground.com/history/airport/KDAY/2016/9/28/DailyHistory.html?req_city=&req_state=&req_state name=&reqdb.zip=&reqdb.magic=&reqdb.wmo=

 $^{^{\}rm 1}$ - The explosive gas monitor baseline reading was 1 percent LEL. The meter did not zero for LEL readings and the corresponding methane readings were 0 percent; therefore, the readings of 1 percent are anomalous.

^{[2] -} Combustible Gas measurements from SIM Trainer were not collected during the week of February 20th, due to range

CO2 readings started at 0.1 ppm.
 R - Value was rejected (R) as the LEL reading did not correspond to the methane reading of 0 percent.
 PID - Photoionization Detector